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Go ahead in safety



WHEN you carry HAGSTROM INSIDE TIRE SLEEVES in your tool box there is no need of carrying extra casings. The Hagstrom Sleeve fills the bill. They do not disfigure your car and, once inserted in the tires, will last thousands of miles; they positively can not creep and will build up the weak spots; saves vulcanizing, if applied in time, prevents rim cuts and blow outs; easy to insert and will save a large per cent of your tire expense. The Hagstrom Tire Sleeves are the greatest sensation of the season in the auto-tire accessory line, and is the only sleeve that has the endorsement of

our leading motorists and racing men.

Workmanship and material are carefully selected. The Hagstrom Sleeves are put up in boxes, making them convenient to carry. Ask your dealer. On sale everywhere.

HAGSTROM BROS. MANUFACTURING CO.

Works and Main Office
LINDSBORG, KANSAS

Do You Wonder that the Splitdorf Product Leads the World?

The Most Marvelous Non-Stop Automobile Run
Ever Made—10,000 miles without stopping its engine
recently accomplished by a Maxwell car equipped with a

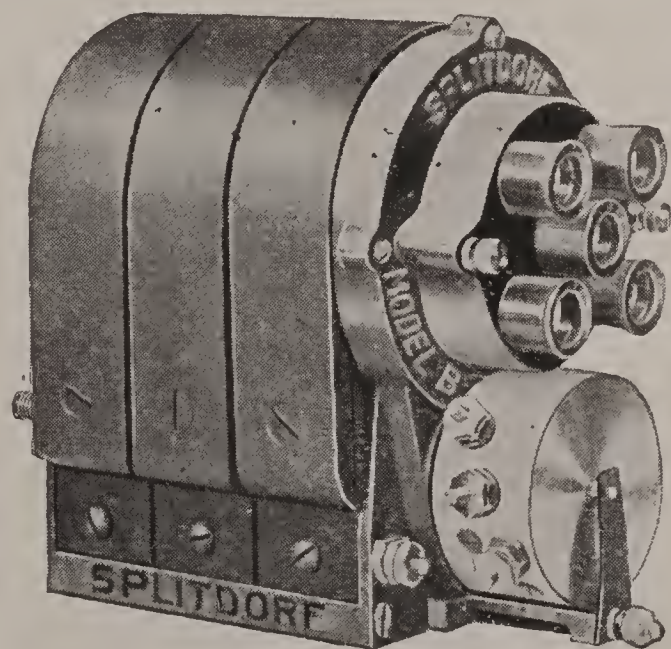
SPLITDORF MAGNETO

AND

COMMON SENSE PLUGS

Magneto and Plugs gave absolutely perfect ignition
during entire run.

It is comparatively easy for any Magneto or Plug to show
good results in a race of 400 or 500 miles, but a gruelling test
of 25 days' continuous and perfect work is a performance
that proves to the utmost the efficiency and reliability of this
incomparable Magneto and Plug.



The following is the last paragraph
of a letter received by us from the
Maxwell-Briscoe Motor Co. regarding
this unparalleled feat:

"This test has conclusively
proved to us that your Mag-
neto is superior to anything
we have ever used.

Yours very truly,
MAXWELL-BRISCOE MOTOR CO.
C. W. Kelsey."

Ask for Magneto catalog

CHICAGO: 319 Michigan Ave.
SAN FRANCISCO:
520 Van Ness Ave.
DETROIT: 886 Woodward Ave.
BOSTON: Motor Mart.

C. F. SPLITDORF

Walton Ave. and 138th St. **NEW YORK**
Branch, 1679 Broadway

Autoline

The Perfect Lubricating Oil for All Types of Motor Cars
and Motor Boats

The Oil that Saves the Motor

A supply of **Autoline** for cylinders, Greoil for transmissions
and B Journal Compound for bearings on a long trip se-
cures a maximum of efficiency and a minimum of worry.

Autoline

IF PROPERLY USED

Will Not Carbonize--Will Not Soot

Quality and uniformity guaranteed—Accept no substitute.
There is nothing “Just as Good” for a motor car of any
description. If your garage does not keep **Autoline**,
write us and name make of your car.

Autoline

Manufactured by

Wm. C. Robinson & Son Co.

CHICAGO, ILL.
BOSTON, MASS.

TERRE HAUTE, IND.
PHILADELPHIA, PA.

BALTIMORE, MD.
PITTSBURG, PA.



===== CINCINNATI, O. =====

REFINERY AT CORAOPOLIS, PA.



First on Land, First on Sea,
First in the Hearts of All Motormen

Mosler Spit Fire PLUGS



Lead the World

USED BY THE LEADING MANUFACTURERS
MAGNETO TYPE OF ALL SIZES


Made to fit any engine, any thread.

Have heavy Genuine Iridium Platinum Points.


Can be had for the asking.

Energetic Ignition

Greater Power



BASE Protects Porcelain and Sparking Points
BASE acts as Condenser of Electricity
BASE Forms Compression Chamber



BASE Makes Plugs Spit Fire
BASE Economizes Current
BASE Facilitates Sparking

INSIST UPON THE TWO PATENTED SIDE CLEANING HOLES
—One is not enough!

*We Protect our Registered Trade Mark and Patents. Dealers and Jobbers **BEWARE!***

Do not be deceived by any other "Fire" name.

There is only ONE GENUINE "Spit Fire" plug—that made by

A. R. MOSLER & CO.


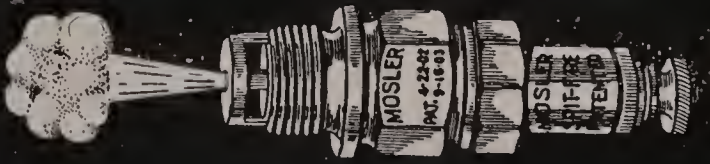
Originators of the "Spit Fire" principle

A TRIUMPH FOR THE SPIT FIRE

The **ONLY** Plugs in the **WORLD** that **ACTUALLY** Spit Fire

INSIST ON THE GENUINE, with Name on Porcelain and Base

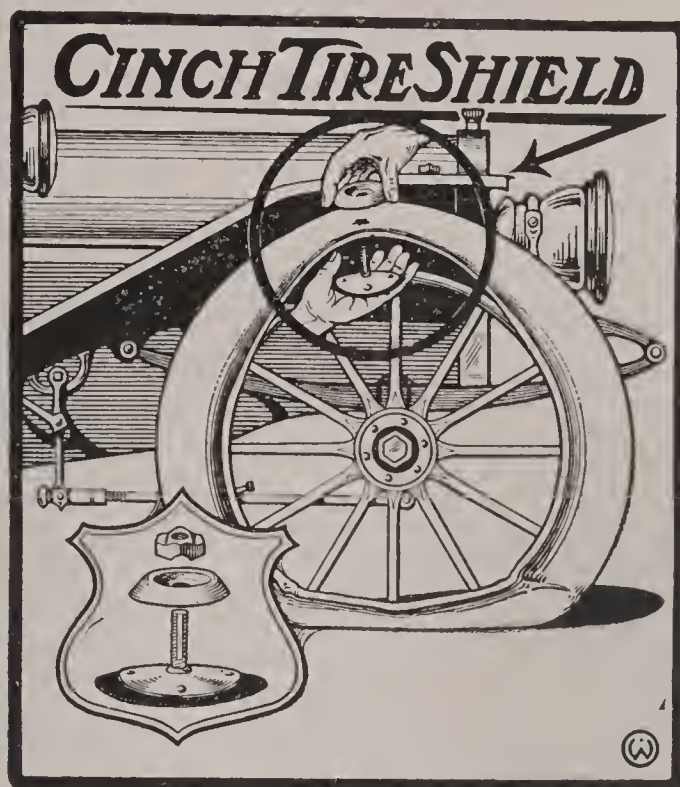
A. R. MOSLER & CO 163 W 29th Street, New York



Don't Walk Home

Don't Run on Flat Tires

Put on a **CINCH**



Patent Allowed

ARE YOU PREPARED FOR A BLOW-OUT?

IF NOT

GET A CINCH TIRE SHIELD

Made to fit any sized tire

Made either of LEATHER REINFORCED with STEEL or of
STEEL COVERED WITH CANVAS

WHY CARRY EXTRA CASES?

Put a few Cinches in the tool box and repair any and all blow-outs

ASK FOR OUR CATALOGUE

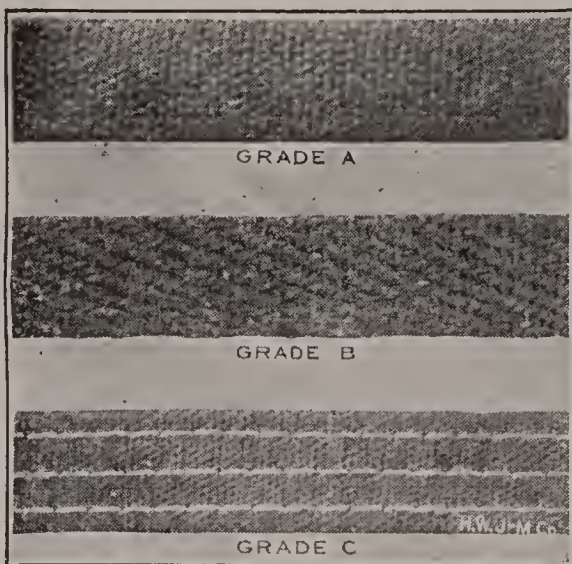
OF

AUTO NOVELTIES AND SUPPLIES INCLUDING THE MARVELOUS
TARNISH PREVENTATIVE

LAWRENCE & WELCH

STERLING, ILLINOIS

For sale by all Reliable Dealers



MADE IN THREE GRADES—
Any Length or Thickness

NON-BURN BRAKE LINING is made of pure long-fibred Asbestos with brass wires inserted. Heat from friction or oil and water do not affect it. Wears 40,000 to 50,000 miles.

Write nearest Branch for Sample and Booklet.

Non-Burn Brake Lining Locked Wheels Instantly

Out of the five most largely used brake band linings recently put to an exhaustive test by Mr. J. D. Maxwell, of the Maxwell Briscoe Motor Company.

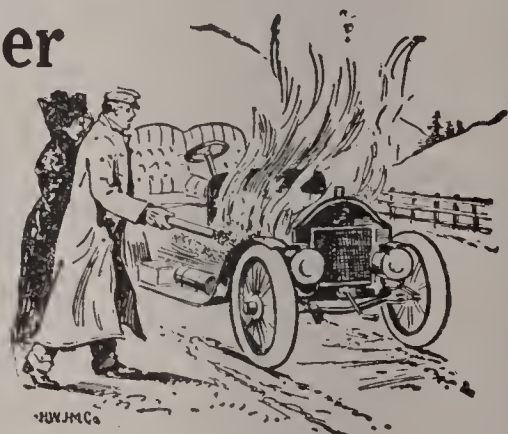
Non-Burn was the only one which locked wheels of car **INSTANTLY**. The lining which came nearest to this locked wheels in 12 feet.

A difference of only one foot in the stopping distance often averts a serious accident!

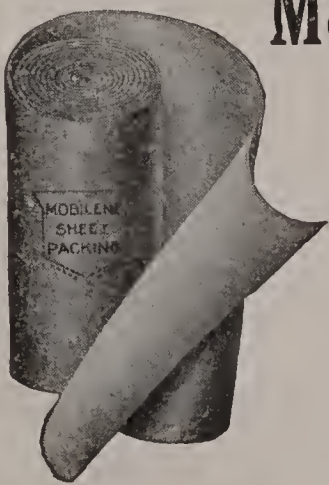
Manville Fire Extinguisher

is absolutely warranted to put out any fire, whether arising from gasoline, benzine, calcium carbide, or any other cause, if thrown at the base of flames when fire first starts. It is also warranted not to injure paint or the upholstering, and not to freeze, cake in the tube, corrode or deteriorate with age.

Is always ready, always sure. **Over a Half Million in Use.**



Write nearest Branch for Booklet.



Mobilene Packing Won't Blow Out

MOBILENE PACKING does not burn, char, harden and blow out like rubber, cloth and other so-called gas-engine packings. It is made of an indestructible mineral — *asbestos* — which heat does not affect.

MOBILENE also has exceptional strength because fine brass wires are intertwined in each strand. It is pliable, compressible and easily cut. Is graphited one side and all ready to apply.

See that it is used on your auto and avoid vexatious delays. **Write nearest Branch for Sample and Booklet.**

H. W. JOHNS-MANVILLE CO.

Baltimore
Boston
Buffalo
Chicago

Cleveland
Dallas
Detroit
Kansas City

London
Los Angeles
Milwaukee
Minneapolis

New Orleans
New York
Philadelphia
Pittsburg

San Francisco
Seattle
St. Louis

Waterhouse

Carburetor

No re-hashing of old methods,
fundamentally new

IT HAS ONLY ONE ADJUST-
MENT, THE NEEDLE VALVE,
ONCE SET REMAINS FIXED
FOR ALL SPEEDS

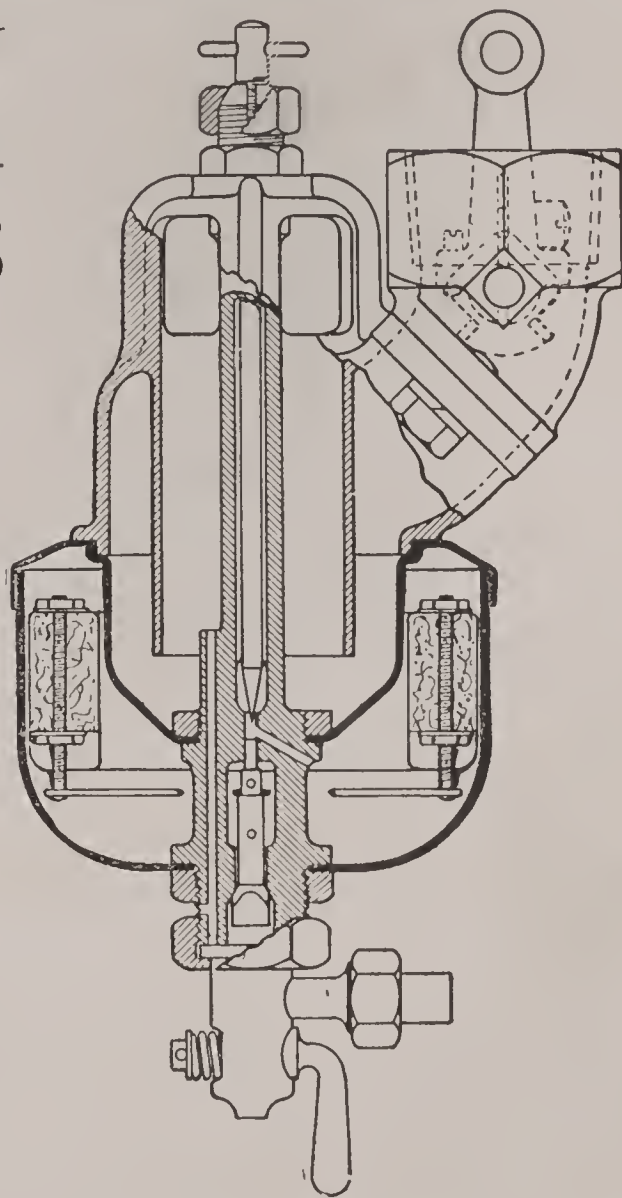
No Air Auxiliaries, no Springs
and no Spray Nozzle, can't
Flood.

Always primed for starting, won't
choke up. Responds to the
throttle instantly.

It's light in weight and very tiny.

Extremely powerful and gives
absolutely no trouble.

Its price is low.



ONE-HALF ACTUAL MEASUREMENTS OF
ONE INCH SIZE

Makers of the
celebrated

Bemus
Timers

Monitor Mfg. Co.

28 PELHAM COURT
Boston, Mass.

Manufacturers of the
Famous

Monitor
Distributors

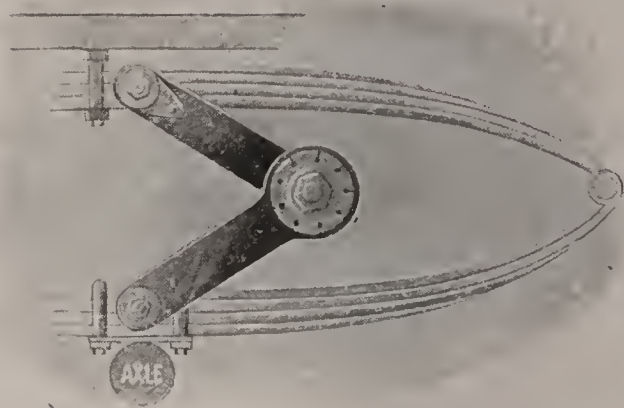
STOP THE JAR AND SHOCK

AND THE EVER WORKING INJURY TO YOUR
CAR BY THE USE OF THE

WESTEN SHOCK ABSORBER

THE ONLY SHOCK ABSORBER MADE THAT
WILL AUTOMATICALLY ADJUST THEMSELVES
TO ANY LOAD OR ROAD CONDITIONS.

This absorber automatically adjusts itself to the natural position regardless of the load carried by the vehicle, and at the same time brakes the upward as well as the downward motion of the springs.



In the ordinary shock absorber the absorbing qualities are lost by the addition of extra weight, or if the car meets with an unordinary obstruction. While the vibration of the engine is in no way checked and is the cause of much wear and tear. Westen Shock Absorbers catch all vibrations at all times no matter how small or how great. The automatic adjustment within itself make them superior. After once attached to your car assurance of safety and less cost for upkeep is guaranteed, and the unpleasant sound of the nerve racking rat-

tle of loose parts is eliminated.

You should realize at once the damage done by oscillation and equip your car with Westen Shock Absorbers. You will then be prepared to meet unexpected jolts and unseen depressions in the road and add, at the same time, comfort to the passengers of the car.

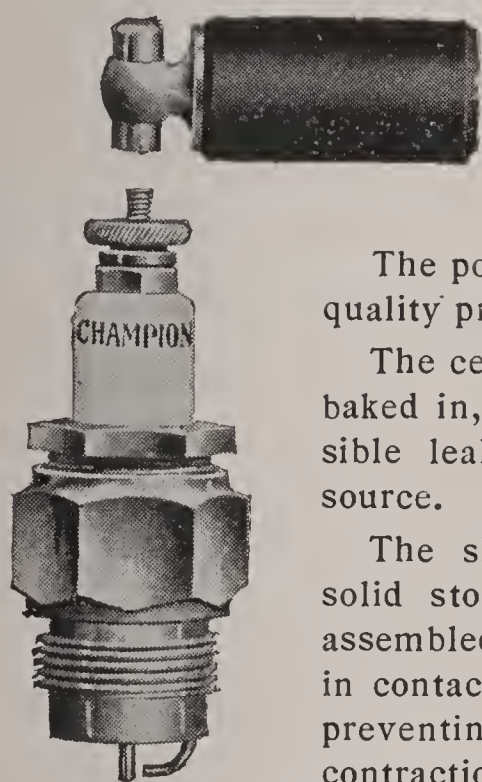
There are two friction planes which make the absorber capable of offering different degrees of resistance to the action of the vehicle springs under varying conditions.

WESTEN MANUFACTURING CO.

290 HALSEY STREET

Newark, New Jersey

The Right Spark Plug is an important adjunct to any Gas Engine



In the construction of the Champion Spark Plug the utmost care is given to every detail, thus assuring the best results.

The porcelain is of the very highest quality procurable.

The centre wire is firmly cemented and baked in, thus doing away with any possible leak of compression through that source.

The shell and bushing are cut from solid stock and so designed that when assembled porcelain does not actually come in contact with either at any point, thus preventing any chance of breakage from contraction or expansion of metal.

The workmanship on parts is so good and so accurate that no matter how many times the plug is taken apart and re-assembled the porcelain is always perfectly centered.

The electrodes or points are of nickel alloy; will not oxidize; are imperforable to spark of almost any intensity; are especially adapted to use with magneto, under which use the points will not burn off as they do on so many other plugs.

The combustion chamber at lower extremity of porcelain keeps the points free from soot, and practically eliminates any necessity for cleaning.

We particularly recommend the use of Champion Plugs under severest conditions, such as very high compression, excessive oil in cylinders, with magneto, etc.

Genuine Champion Spark Plugs are manufactured only by

The Champion Company

36 Whittier Street, Boston, Mass.

This is

a cash

6



60

proposition

\$10⁰⁰

only

Compare these sizes with other 6 volt
60 ampere Batteries

8 x 6¹/₄ x 9¹/₈

Guaranteed for one year or money refunded. Made in
sizes from 40 amperes up

MICHIGAN STORAGE BATTERY CO.

67 East Atwater Street, Detroit, Mich.

YOUR CAR CANNOT RUN EASIEST

Nor Last Longest Without the Best Lubricant

The ONE Automobile Oil and the
ONE Automobile Grease you
can always depend upon—that gives
PERFECT SATISFACTION and
reduces cost of lubrication and repair bills
to a minimum is

PEARE'S



AUTO OIL AND GREASE

**THEY SAVE WEAR
INCREASE POWER and
EVERY DROP LUBRICATES**

WHY?

Because they are manufactured
by a firm with fifty-five years'
experience in the lubricating¹ oil
business.

**Speare's Body Soap
Speare's Metal Polish
Speare's Waste**

are also the most economical
you can buy

SPEARE'S GOODS are sold everywhere;
if not, send dealer's name and write us direct.

DEALERS—Send for Speare's latest propo-
sition.

THE ALDEN SPEARE'S SONS CO.

Established 1851

253 Broadway
New York

369 Atlantic Avenue
BOSTON, MASSACHUSETTS

21 River Street
Chicago

T. S. D. Recording Company

(Metropolitan Building)

NO. 1 MADISON AVENUE, NEW YORK

Manufacturers of best modern devices and instruments for accurately measuring TIME, SPEED, DISTANCE, including stops or waiting time, and permanently registering same.

Machines suitable for all kinds of vehicles—horse drawn or motor. Especially adapted for Automobiles.

T. S. D. Combination Recorder, containing within a highly polished brass case, securely locked, with plate glass front, a Speedometer, Odometer, Clock (eight day, full-jewelled marine movement), and recording tape sufficient for one week, on which is correctly and permanently recorded time employed, speed attained, distance travelled and stops made day or night. Absolutely eliminates "Joy Rides."

T. S. D. Commercial Recorder (for commercial vehicles), comprising clock and record tape, locked within a solid metal case, and giving a clear, permanent record of exact movement of vehicles, thus preventing or minimizing speeding or loitering.

T. S. D.
Combination
Recorder



Half
Size

T. S. D. Speedometer and Odometer combined

T. S. D. Speedometer—singly

T. S. D. Odometer

T. S. D. Clocks

T. S. D. Taximeter or Taxirecord for taxicabs and vehicles for hire

Exclusive
Territory
To
Responsible
Representatives

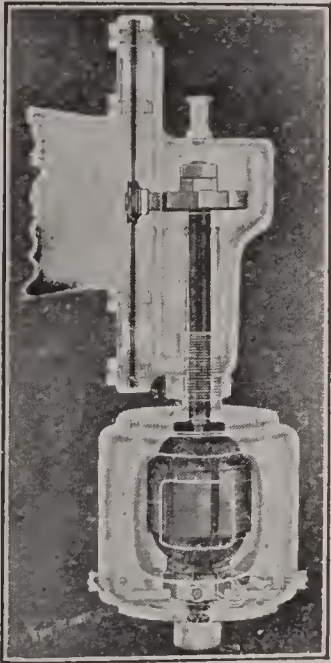
The construction of all T. S. D. Machines embodies features which mark a distinct advance in the State of the Art, and will meet all requirements of practicability, reliability, accuracy and durability, which instruments for the service intended should possess.

THE KLAXON

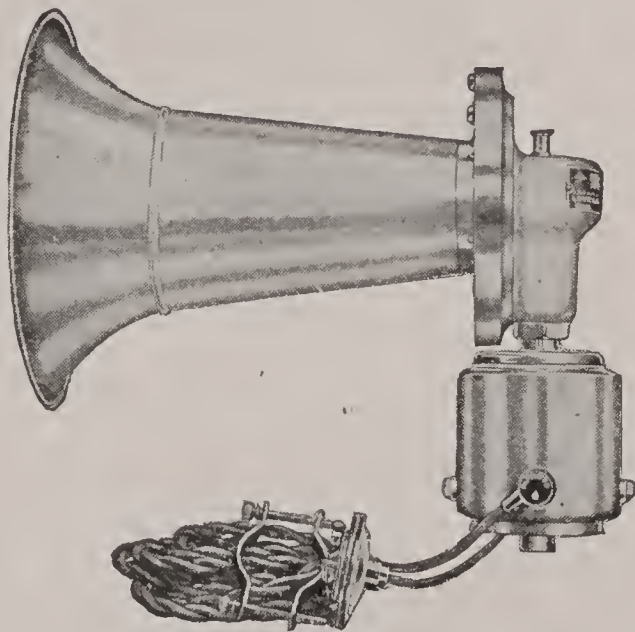
Trade Mark Reg. Patented Mar. 31-08, Jan. 19-09 (2), Feb. 2-09, May 25-09 (3)

“THE X-RAY OF SOUND”

THE “Klaxon” is a Noise machine.
It is run by an electric motor
and is built to run for years :: :: ::
It operates from a 6 or 8-volt stor-
age battery or 8 dry cells. It is not
a horn--reed or electric---though it
looks somewhat like one :: :: ::



Sectional view of KLAXON
showing relative position of
motor shaft, toothed wheel
and vibrating diaphragm.



Type L—Long Projector

Lovell-McConnell
Mfg. Co., *Manufacturers*

365-367 Market Street, NEWARK, N. J.

The
Klaxon Company

Sole Distributors for U. S. A.

1 Madison Avenue, NEW YORK

TOURISTS en route between CHICAGO and NEW YORK

Can secure UNIFORM LUBRICATION and FREEDOM from CARBON
TROUBLES, by calling for

ANTI-CARBON AUTO OIL

Made By

THE KEYSTONE REFINING CO.
COLUMBUS, OHIO

at any of the following FIRST-CLASS GARAGES along the route :

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J. E. Palethorpe, 20 East Sycamore

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Tipton Garage and Machine Works

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Atwood Garage, 2015 Monroe Street

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Fremont Auto & Repair Co., 207-09 Garrison Street

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H. P. Klaiss, 123 East Market Street

BELLEVUE, OHIO—E. C. Reitz

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Niagara Falls Auto & Transit Co., 103 Main St.

BATAVIA, N. Y.—Hilte & Kennedy, 24 Main St.

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Rochester Auto Supply Co., 375 Main Street

AUBURN, IND.

Auburn Automobile Co., 54-60 Water Street

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ALBANY, N. Y.

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NEW YORK—Chas. E. Miller, 97 Reid Street

By using the same grade of oil from start to finish you avoid the necessity of changing feed, and we are positive you can not start with a better oil, or one that will cause you LESS CARBON TROUBLE than our celebrated

ANTI-CARBON AUTO OIL

We will appreciate it if consumers will report to us any dealers who try to substitute an inferior oil for our ANTI-CARBON.

THE KEYSTONE REFINING COMPANY

COLUMBUS, OHIO



The same
consistency
for all
seasons of
the year.
Not
affected by
severe con-
ditions of
heat and
cold.



KEYSTONE GREASE

ESTABLISHED 1884

Holds the record
for lowest fric-
tion and greatest
test for endur-
ance in the great
plant of the Wil-
liam Cramp &
Sons Ship and
Engine Building
Company, Phila-
delphia.

ORDER IT
NEXT TIME



Has an estab-
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in the power
plant field for
superiority and
greatness. Ask
any engineer
anywhere.

Is not soluble in
water like cheap
grease.

ORDER IT
NEXT TIME

The World's Greatest Lubricant

No. 1 Density (solid) for use in all grease cups—on axle bearings or wherever the use of a solid lubricant might be required.

No. 3 Density (semi-solid) for transmission, differential and timing gear cases.

KEYSTONE

Lubricating
Company

Philadelphia

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NEW YORK
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Oliver Bldg.
NEW ORLEANS
612 Chartres Bldg.



Dealers and Jobbers write
for our Special Proposition.

Gus Balzer

Manufacturer and
Manufacturers Representative

Representing

MONOGRAM CREST AND SIGN CO.

We Handle Following Goods:

Sawed and Etched Name Plates. Radiator Cap Eagles and
Ornaments. Limousine Bouquet Holders.

We Make a Specialty of all Ornaments that are used on an Automobile

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New York

The so called Tire Problem is
no Problem at all to a raft of

Goodrich Tire

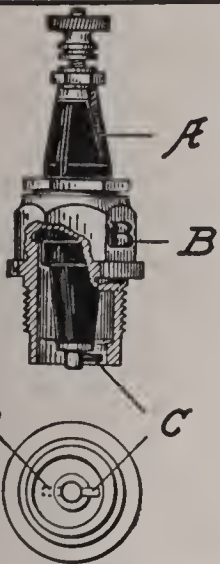
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They get inexpensive pleasurable
milage—and a good deal of it

The B. F. Goodrich Company

Akron, Ohio

Branches in all large Cities



The "Excentric" Mica Plug

Try it and convince yourself of its
superiority. Guaranteed for one year

Mica Core Manufacturing Co.

Makers of Spark Plugs, Mica
Cores, Timers and Distributers

446 E. 166th STREET

NEW YORK CITY

WORCESTER IGNITION SPECIALTIES



WORCESTER COMBINATION ROTARY SWITCH
(Controller Type)

Operated by Hand or Foot

WORCESTER AUTOMOBILE AND MARINE COILS

SEND FOR CATALOG

W. H. LELAND & COMPANY

WORCESTER :: MASSACHUSETTS

PHOTO-AUTO MAPS

Photographs of every turn, together with a
Topographical Outline of Road
Showing Railroad Crossings, Bridges, School
Houses and All Landmarks, with
Accurate Distances Between

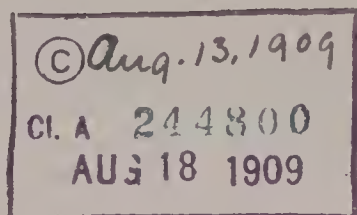
CHICAGO TO SOUTH BEND
SOUTH BEND TO CHICAGO

Rand McNally & Company

PUBLISHERS

166 and 168 Adams Street
CHICAGO

142 Fifth Avenue
NEW YORK



GV1024
747
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Instructions for Using Photo- Auto Maps

The best way to use the Photo-Auto Maps is to follow the route by the topographical map and refer to the photographs only to make sure that you are turning at the right place. Use your meter at all times to get the distances between turns. The distances given between turns will vary with different machines, as a slight difference in size of tires, different conditions of the roads and many other things tend to vary the register. Three meters were used and an average taken to get the distances given. The numbers in the squares and circles give the number of the photographs at the turns and the figures outside of them give the distance to the next photograph. The compass on each plate should be used to get correct directions. This map is not drawn to scale, but is made to show the turns to the best advantage. Where turns occur close together the map is enlarged and where there is a long straight run it is condensed, so do not judge distances by the appearances of the map. Go entirely by the meter readings. Distances between closest points only are given to insure the smallest variation. The distances given are the average obtained from three different makes of speedometers and a re-check by the Warner Auto-Meter.

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Copyright 1909, by Rand McNally, & Co., Chicago

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To the Motorist Who is Down on His "Tire Luck"

You don't hear the man who uses Morgan & Wright tires saying much about his "tire luck," good or bad.

After he has used a pair or two, he gets out of the habit of ascribing the completion of a trip or a tour without tire trouble to good fortune. He lays it to "**Good Tires**"—nothing else. He knows that—take tires made as Morgan & Wright tires are, out of the highest grade of materials with a painstaking care in regard to the minutest details of construction, and give them proper care—tire service ceases to be a matter of chance.

He gets a confidence in his tire equipment that adds much to the enjoyment of his car, and a freedom from repair bills that is a big help to his bank account.

There is no truer saying in motordom than that—

MORGAN & WRIGHT TIRES
ARE GOOD TIRES

Dealers everywhere sell them at the same price you are asked to pay for other brands.

Morgan & Wright, Detroit

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Simplicity, Strength

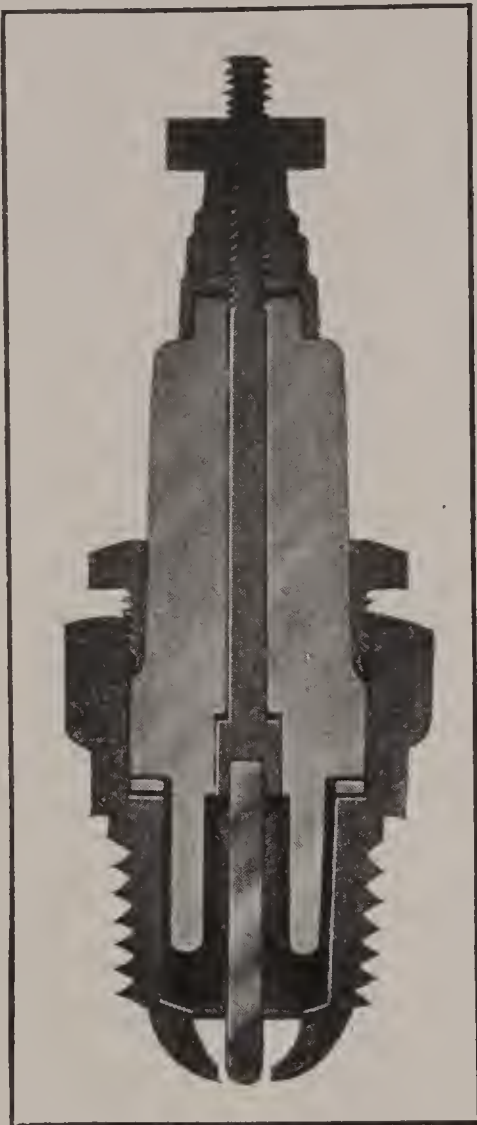
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With Porcelain
Insulator **75c**

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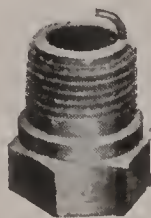
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Absolutely Indestructible

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Any Thread

Same Price

CLEANED IN ONE MINUTE

STANDARD SALES COMPANY
MAKERS

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1779 Broadway, at 57th Street

NEW YORK CITY

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Table of Distances Between Points

CHICAGO TO SOUTH BEND

FROM — TO	Chicago	Hammond	Highlands	Hobart	Wheeler	Valparaiso	Westville	La Porte	New Carlisle	South Bend
Chicago - - - - -	—	19.6	26.9	39.0	44.8	53.4	64.7	76.5	91.0	106.2
Hammond - - - - -	19.6	—	7.3	19.4	25.2	33.8	45.1	56.9	71.4	86.6
Highlands - - - - -	26.9	7.3	—	12.1	17.9	26.5	37.8	49.6	64.1	79.3
Hobart - - - - -	39.0	19.4	12.1	—	5.8	14.4	25.7	37.5	52.0	67.2
Wheeler - - - - -	44.8	25.2	17.9	5.8	—	8.6	19.9	31.7	46.2	61.4
Valparaiso - - - - -	53.4	33.8	26.5	14.4	8.6	—	11.3	23.1	37.6	52.8
Westville - - - - -	64.7	45.1	37.8	25.7	19.9	11.3	—	11.8	26.3	41.5
La Porte - - - - -	76.5	56.9	49.6	37.5	31.7	23.1	11.8	—	14.5	29.7
New Carlisle - - - - -	91.0	71.4	64.1	52.0	46.2	37.6	26.3	14.5	—	15.2
South Bend - - - - -	106.2	86.6	79.3	67.2	61.4	52.8	41.5	29.7	15.2	—

TABLE OF DISTANCES

	South Bend	Mishawaka	Osceola	Goshen	Benton	Ligonier	Wawaka	Kendallville	Waterloo	Butler	Edgerton	Bryan	Stryker	Archbold	Wauseon	Delta	Swanton	Toledo
South Bend																		
Mishawaka	4.5																	
Osceola	10.2	5.7																
Goshen	24.8	20.3	14.6															
Benton	32.1	27.6	21.9	7.3														
Ligonier	42.8	38.3	32.6	18.0	10.7													
Wawaka	49.1	44.6	38.9	24.3	17.0	6.3												
Kendallville	61.8	57.3	51.6	37.0	29.7	19.0	12.7											
Waterloo	76.8	72.3	66.6	52.0	44.7	34.0	27.7	15.0										
Butler	84.5	80.0	74.3	59.7	52.4	41.7	35.4	22.7	7.7									
Edgerton	91.7	87.2	81.5	66.9	59.6	48.9	42.6	29.9	14.9	7.2								
Bryan	103.4	98.9	93.2	78.6	71.3	60.6	54.3	41.6	26.6	18.9	11.7							
Stryker	112.1	107.6	101.9	87.3	80.0	69.3	63.0	50.3	35.3	27.6	20.4	8.7						
Archbold	119.3	114.8	109.1	94.5	87.2	76.5	70.2	57.5	42.5	34.8	27.6	15.9	7.2					
Wauseon	129.7	125.2	119.5	104.9	97.6	86.9	80.6	67.9	52.9	45.2	38.0	26.3	17.6	10.4				
Delta	140.6	136.1	130.4	115.8	108.5	97.8	91.5	78.8	63.8	56.1	48.9	37.2	28.5	21.3	10.4			
Swanton	146.0	141.5	135.8	121.2	113.9	103.2	96.9	84.2	69.2	61.5	54.3	42.6	33.9	26.7	16.3	5.4		
Toledo	173.4	168.9	163.2	148.6	141.3	130.6	124.3	111.6	96.6	88.9	81.7	70.0	61.3	54.1	43.7	32.8	27.4	

TABLE OF DISTANCES

	Toledo	Genoa	Woodville	Fremont	Clyde	Bellview	Monroeville	Norwalk	Townsend	Wakeman	Kipton	Oberlin	Elyria	Ridgeville	Dover	Cleveland
Toledo																
Genoa	14.1															
Woodville	19.4	5.3														
Fremont	33.3	19.2	13.9													
Clyde	42.3	28.2	22.9	9.0												
Bellview	49.9	35.8	30.5	16.6	7.6											
Monroeville	58.4	44.3	39.0	25.1	16.1	8.5										
Norwalk	63.5	49.4	44.1	30.2	21.2	13.6	5.1									
Townsend	70.2	56.1	50.8	36.9	27.9	20.3	11.8	6.7								
Wakeman	74.7	60.6	55.3	41.4	32.4	24.8	16.3	11.2	4.5							
Kipton	82.5	68.4	63.1	49.2	40.2	32.6	24.1	19.0	12.3	7.8						
Oberlin	88.4	74.3	69.0	55.1	46.1	38.5	30.0	24.9	18.2	13.7	7.8					
Elyria	97.8	83.7	78.4	64.5	55.5	47.9	39.4	34.3	27.6	23.1	15.3	9.4				
Ridgeville	102.6	88.5	83.2	69.3	60.3	52.7	44.2	39.1	32.4	27.9	23.1	15.3	9.4			
Dover	109.7	95.6	90.3	76.4	67.4	59.8	51.3	46.2	39.5	35.0	27.2	21.3	14.2	4.8	7.1	14.0
Cleveland	123.7	109.6	104.3	90.4	81.4	73.8	65.3	60.2	53.5	49.0	41.2	35.0	25.9	21.1	14.0	14.0

TABLE OF DISTANCES

	Cleveland	Willoughby	Mentor	Painesville	Geneva	Ashtabula	Conneaut	E. Springfield	Girard	Fairview	Erie	Buffalo
Cleveland												
Willoughby	18.8											
Mentor	23.5	4.7										
Painesville	29.7	10.9	6.2									
Geneva	47.5	28.7	24.0	17.8								
Ashtabula	58.0	39.2	34.5	28.3	10.5							
Conneaut	71.8	53.0	48.3	42.1	24.3	13.8						
E. Springfield	80.4	61.6	56.9	50.7	32.9	22.4	8.6					
Girard	85.9	67.1	62.4	56.2	38.4	27.9	14.1	5.5				
Fairview	90.2	71.4	66.7	60.5	42.7	32.2	18.4	9.8	4.3			
Erie	102.1	83.3	78.6	72.4	54.6	44.1	30.3	21.7	16.2	11.9		
Buffalo	197.2	178.4	173.7	167.5	149.7	139.2	125.4	116.8	111.3	107.0	95.1	

TABLE OF DISTANCES

	Cleveland	Erie	Wesleyville	Harbour Creek	North East	Ripley	Westfield	Portland	Brocton	Fredonia	Sheridan	Silver Creek	Irving	Buffalo
Cleveland		102.1	106.2	110.0	117.2	126.1	133.1	140.3	141.9	148.8	154.7	160.9	164.3	197.2
Erie	102.1		4.1	7.9	15.1	24.0	31.0	38.2	39.8	46.7	52.6	58.8	62.2	95.1
Wesleyville	106.2	4.1		3.8	11.0	19.9	26.9	34.1	35.7	42.6	48.5	54.7	58.1	91.0
Harbour Creek	110.0	7.9	3.8		7.2	16.1	23.1	30.3	31.9	38.8	44.7	50.9	54.3	87.2
North East	117.2	15.1	11.0	7.2		8.9	15.9	23.1	24.7	31.6	37.5	43.7	47.1	80.0
Ripley	126.1	24.0	19.9	16.1	8.9		7.0	14.2	15.8	22.7	28.6	34.8	38.2	71.1
Westfield	133.1	31.0	26.9	23.1	15.9	7.0		7.2	8.8	15.7	21.6	27.8	31.2	64.1
Portland	140.3	38.2	34.1	30.3	23.1	14.2	7.2		7.2	8.5	12.8	19.0	22.4	55.3
Brocton	141.9	39.8	35.7	31.9	24.7	15.8	8.8	1.6		6.9	12.8	19.0	22.4	55.3
Fredonia	148.8	46.7	42.6	38.8	31.6	22.7	15.7	8.5	6.9		5.9	12.1	15.5	48.4
Sheridan	154.7	52.6	48.5	44.7	37.5	28.6	21.6	14.4	12.8	5.9		6.2	9.6	42.5
Silver Creek	160.9	58.8	54.7	50.9	43.7	34.8	27.8	20.6	19.0	12.1	6.2		3.4	36.3
Irving	164.3	62.2	58.1	54.3	47.1	38.2	31.2	24.0	22.4	15.5	9.6	3.4		32.9
Buffalo	197.2	95.1	91.0	87.2	80.0	71.1	64.1	56.9	55.3	48.4	42.5	36.3	32.9	

TABLE OF DISTANCES

	Buffalo	Batavia	Bergen	Churchville	Rochester	Pittsford	Macedon	Palmyra	Phelps	Auburn	Elbridge	Camillius	Syracuse	Albany
Buffalo														
Batavia	39.6													
Bergen	55.6	16.0												
Churchville	59.0	19.4	3.4											
Rochester	73.4	33.8	17.8	14.4										
Pittsford	80.6	41.0	25.0	21.6	7.2									
Macedon	92.0	52.4	36.4	33.0	18.6	11.4								
Palmyra	97.2	57.6	41.6	38.2	23.8	16.6	5.2							
Phelps	111.7	72.1	56.1	52.7	38.3	31.1	19.7	14.5						
Auburn	138.9	99.3	83.3	79.9	65.5	58.3	46.9	41.7	27.2					
Elbridge	149.6	110.0	94.0	90.6	76.2	69.0	57.6	52.4	37.9	10.7				
Camillius	156.6	117.0	101.0	97.6	83.2	76.0	64.6	59.4	44.9	17.7	7.0			
Syracuse	165.5	125.9	109.9	106.5	92.1	84.9	73.5	68.3	53.8	26.6	15.9	8.9		
Albany	318.0	278.4	262.4	259.0	244.6	237.4	226.0	220.8	206.3	179.1	168.4	161.4	152.5	

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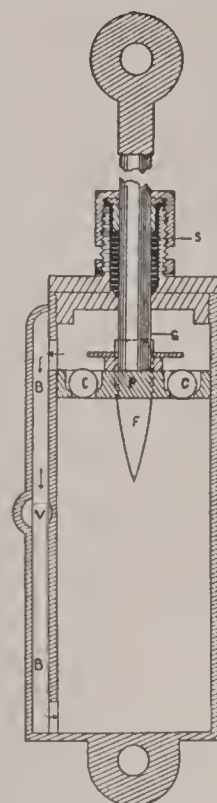
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A more quiet running car.

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The life of your car 50%,
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PAT. APPLIED FOR

The "BOSTON"

Does not stiffen or in any way injure the action of the springs.

Does not drag on the spring under any condition.

Does not get out of order.

Does prevent you from being thrown out of the seat.

Does prevent continued bouncing after a jounce.

Does really absorb the shock.

30 DAYS TRIAL

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TABLE OF DISTANCES

	Buffalo	Syracuse	Fayetteville	Chittenango	Canastota	Oneida Castle	Kirkland	New Hartford	Utica	Herkimer	Little Falls	St. Johnsville	Fonda	Amsterdam	Schenectady	Albany
Buffalo	P 165.5	165.5	172.8	180.8	187.5	193.2	207.0	211.8	215.3	231.4	238.4	256.3	276.7	287.4	303.0	318.0
Syracuse	H 7.3	H 7.3	O 8.0	T 6.7	O 5.7	5.7	41.5	46.3	49.8	65.9	72.9	90.8	111.2	121.9	137.5	152.5
Fayetteville	172.8	15.3	O 8.0	T 8.0	14.7	22.4	36.2	39.0	42.5	58.6	65.6	83.5	103.9	114.6	130.2	145.2
Chittenango	180.8	22.0	14.7	T 6.7	6.7	12.4	26.2	31.0	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2
Canastota	187.5	22.0	14.7	O 6.7	6.7	5.7	19.5	24.3	27.8	43.9	50.9	68.8	89.2	99.9	115.5	130.5
Oneida Castle	193.2	27.7	22.4	12.4	5.7	5.7	13.8	18.6	22.1	38.2	45.2	63.1	83.5	94.2	109.8	124.8
Kirkland	207.0	41.5	36.2	26.2	19.5	13.8	A 4.8	4.8	8.3	24.4	31.4	49.3	69.7	80.4	96.0	111.0
New Hartford	211.8	46.3	39.0	31.0	24.3	18.6	U 3.5	4.8	3.5	19.6	26.6	44.5	64.9	75.6	91.2	106.2
Utica	215.3	49.8	42.5	34.5	27.8	22.1	8.3	27.8	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2
Herkimer	231.4	65.9	72.9	58.6	43.9	38.2	24.4	31.4	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2
Little Falls	238.4	72.9	65.6	57.6	50.9	45.2	31.4	36.2	34.5	50.6	57.6	75.5	95.9	106.6	122.2	137.2
St. Johnsville	256.3	90.8	83.5	75.5	68.8	63.1	49.3	44.5	41.0	24.9	17.9	20.4	31.1	41.3	51.7	62.2
Fonda	276.7	111.2	103.9	95.9	89.2	83.5	69.7	64.9	61.4	45.3	38.3	20.4	10.7	26.3	41.3	51.7
Amsterdam	287.4	121.9	114.6	106.6	99.9	94.2	80.4	75.6	72.1	56.0	49.0	31.1	10.7	15.6	30.6	41.3
Schenectady	303.0	137.5	130.2	122.2	115.5	109.8	96.0	91.2	87.7	71.6	64.6	56.7	26.3	15.6	15.0	26.3
Albany	318.0	152.5	145.2	137.2	130.5	124.8	111.0	106.2	102.7	86.6	79.6	71.7	41.3	30.6	15.0	26.3

WINESTOCK SPARK PLUGS

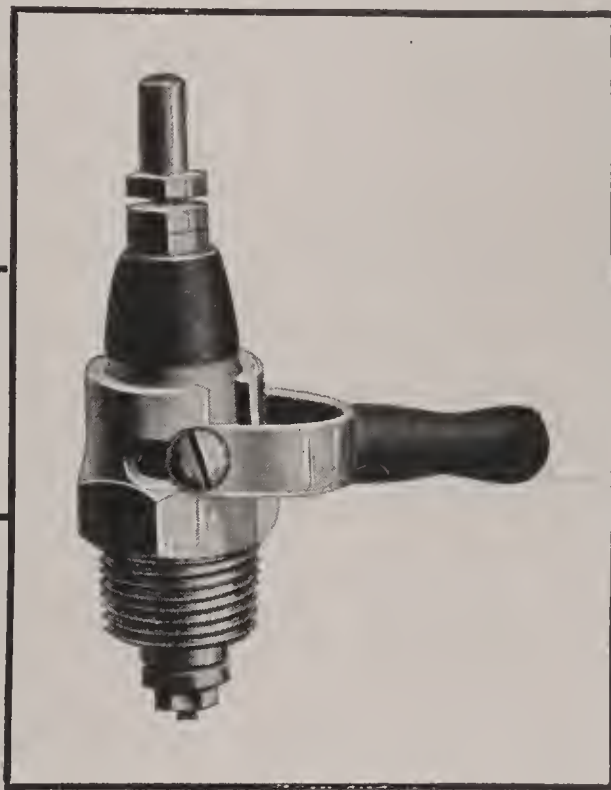
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Only quick detachable plug containing both terminals in the detachable member.

Absolutely will not leak compression

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Gives the hottest spark of any plug made.

Non-breakable insulation.

Adjustable spark gap—once adjusted, always adjusted.

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TABLE OF DISTANCES

	Albany	Rensselaer	Schodack Center	Kinderhook	Stuyvesant Falls	Hudson	Blue Store	Upper Red Hook	Red Hook	Rhinebeck	Staatsburg	Hyde Park	Poughkeepsie	New York City
Albany														
Rensselaer	1.0		7.3	20.9	24.5	33.5	43.0	49.8	52.5	58.2	64.2	68.3	74.4	149.8
Schodack Center	7.3	6.3		19.9	23.5	32.5	42.0	48.8	51.5	57.2	63.2	67.3	73.4	148.8
Kinderhook	20.9	13.6	13.6		3.6	9.0	18.5	25.3	28.0	31.6	37.3	43.3	47.4	128.9
Stuyvesant Falls	24.5	17.2	3.6	3.6		9.5	16.3	22.1	25.3	28.9	32.5	35.7	39.7	125.3
Hudson	33.5	26.2	12.6	9.0	9.0		6.8	9.5	12.6	15.2	18.5	21.2	24.6	106.8
Blue Store	43.0	35.7	22.1	18.5	9.5	6.8		2.7	5.7	8.4	11.7	15.8	21.9	97.3
Upper Red Hook	49.8	42.5	28.9	25.3	28.0	31.6	37.3	43.3	47.4	53.5	58.2	63.2	67.3	142.5
Red Hook	52.5	45.2	31.6	28.9	25.3	22.1	19.9	17.2	13.6	9.0	5.7	2.7	1.0	149.8
Rhinebeck	58.2	50.9	37.3	33.7	30.7	28.9	25.3	21.2	18.5	15.2	12.6	9.0	6.3	148.8
Staatsburg	64.2	56.9	43.3	39.7	36.2	32.5	28.9	25.3	21.2	17.2	13.6	9.0	6.3	142.5
Hyde Park	68.3	61.0	47.4	43.8	40.9	37.3	33.7	30.7	27.3	23.5	19.9	16.3	12.6	128.9
Poughkeepsie	74.4	67.1	53.5	49.9	46.2	42.5	38.9	35.2	31.6	27.9	24.2	20.5	16.8	125.3
New York City	149.8	148.8	142.5	128.9	125.3	116.3	106.8	100.0	97.3	91.6	85.6	81.5	75.4	116.3

DETROIT and SOUTH BEND OR ANYWHERE

An *abundance* of *enjoyable* features along the road, but an *over abundance* of *menacing* features on the road. Chances are a *thousand* to *one* in favor of the *menacing* features winning out—unless you squelch them.

You know that a succession of punctures and blow-outs will spoil the effect of *any trip* and ruffle the temper of a Saint—besides—tearing *big* holes in the pocket-book.

The *best* move *you* can make, *before* taking *any* trip—a block or a thousand miles—is to have your tires treated with

KEMIZITE

It Heals Punctures

The only absolute-harmless-permanent puncture healer

Guaranteed "Money Back" Basis

Clean — odorless
Not a cement
Not gummy
Not sticky
Not a filler

Only small quantity needed
Does not reduce resiliency
Does not interfere with vulcanization
Eliminates 75% of blow-outs
Increases mileage

Proportion — 5% Kemizite — 95% Air

Thousands of auto owners are using *KEMIZITE* with *absolute satisfaction*. More down right enjoyment than they ever experienced with tires before, and at greatly *decreased* expense.

This is the move for *you* to make. No matter what you *remember* of the *past*—*do this now*. Investigate *KEMIZITE*—satisfy yourself. Remember a "money back" guarantee goes with it.

AUTO TIRE-SECURITY COMPANY

1231 Michigan Ave. = = = = Chicago

TABLE OF DISTANCES

	New York City	Yonkers	Hastings	Dobbs Ferry	Irvington	Tarrytown	Ossining	Croton	Peekskill	Cold Spring	Fishkill Village	Wappingers Falls	Poughkeepsie	Albany
New York City														
Yonkers	14.2													
Hastings	18.7	4.5												
Dobbs Ferry	20.2	6.0	1.5											
Irvington	21.4	7.2	2.7	1.2										
Tarrytown	24.5	10.3	5.8	4.3	3.1									
Ossining	30.6	16.4	11.9	10.4	9.2	6.1								
Croton	34.3	20.1	15.6	14.1	12.9	9.8	3.7							
Peekskill	42.1	27.9	23.4	21.9	20.7	17.6	11.5	7.8						
Cold Spring	53.5	39.3	34.8	33.3	32.1	29.0	22.9	19.2	11.4					
Fishkill Village	62.7	48.5	44.0	42.5	41.3	38.2	32.1	28.4	20.6	9.2				
Wappingers Falls	67.8	53.6	49.1	47.6	46.4	43.3	37.2	33.5	25.7	14.3	5.1			
Poughkeepsie	75.4	61.2	56.7	55.2	54.0	50.9	44.8	41.1	33.3	21.9	12.7	7.6		
Albany	149.8	135.6	131.1	129.6	128.4	125.3	119.2	115.5	107.7	96.3	87.1	82.0	74.4	74.4

Table of Mileage

				MILES
South Bend to	Lakeville	.	.	10.5
"	" Lapaz	.	.	16.3
"	" Plymouth	.	.	24.5
"	" Argos	.	.	32.6
"	" Rochester	.	.	44.5
"	" Perrysburg	.	.	58.1
"	" Mexico	.	.	63.9
"	" Peru	.	.	69.8
"	" Bunker Hill	.	.	78.7
"	" Miami	.	.	82.5
"	" Kokomo	.	.	93.0
"	" Sharpsville	.	.	102.8
"	" Tipton	.	.	112.5
"	" Atlanta	.	.	118.4
"	" Arcadia	.	.	122.0
"	" Cicero	.	.	125.2
"	" Noblesville	.	.	131.5
"	" Indianapolis	.	.	155.2
Indianapolis to	Noblesville	.	.	23.7
"	" Cicero	.	.	30.0
"	" Arcadia	.	.	33.2
"	" Atlanta	.	.	36.8
"	" Tipton	.	.	42.7
"	" Sharpsville	.	.	52.4
"	" Kokomo	.	.	62.2
"	" Miami	.	.	72.7
"	" Bunker Hill	.	.	76.5
"	" Peru	.	.	85.4
"	" Mexico	.	.	91.3
"	" Perrysburg	.	.	97.1
"	" Rochester	.	.	110.7
"	" Argos	.	.	122.6
"	" Plymouth	.	.	130.7
"	" Lapaz	.	.	138.9
"	" Lakeville	.	.	144.7
"	" South Bend	.	.	155.2

Table of Distances

	MILES
South Bend to Lakeville . . .	10.5
Lakeville to Lapaz	5.8
Lapaz to Plymouth	8.2
Plymouth to Argos	8.1
Argos to Rochester	11.9
Rochester to Perrysburg	13.6
Perrysburg to Mexico	5.8
Mexico to Peru	5.9
Peru to Bunker Hill	8.9
Bunker Hill to Miami	3.8
Miami to Kokomo	10.5
Kokomo to Sharpsville	9.8
Sharpsville to Tipton	9.7
Tipton to Atlanta	5.9
Atlanta to Arcadia	3.6
Arcadia to Cicero	3.2
Cicero to Noblesville	6.3
Noblesville to Indianapolis . .	23.7

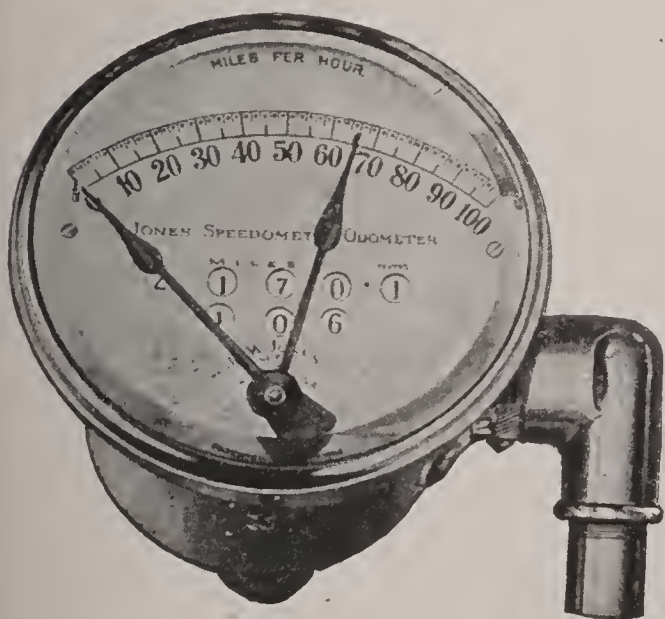
TURN TO RIGHT AND STOP



If your car is not equipped with a reliable speed-indicator. No use touring without the famous

JONES SPEEDOMETER

The BEST speed-indicator on the market. The PIONEER. The Winner of the R. A. C. Gold Medal for ACCURACY. The Jones is indispensable when touring because—it is absolutely reliable and dependable. It is used by the majority of motorists the world over. It is part equipment of practically every car on tour. See that you have a Jones on your dash. By means of the Odometer you can compute the distance cited on the maps—and you KNOW your speed at all times under all conditions.



Write for folder containing illustrations and prices of all models.

**Jones Speedometer Dept.
United Manufacturers, Inc.**

Broadway and 76th Street
New York

Table of Distances

TOLEDO—DETROIT

								MILES
Toledo to Erie	.	.	.	.	.	.	.	11.1
“ “ Monroe	.	.	.	.	.	.	.	20.9
“ “ Trenton	.	.	.	.	.	.	.	41.7
“ “ Wyandotte	.	.	.	.	.	.	.	46.2
“ “ Detroit	.	.	.	.	.	.	.	57.0
Detroit to Wyandotte	.	.	.	.	.	.	.	10.8
“ “ Trenton	.	.	.	.	.	.	.	15.3
“ “ Monroe	.	.	.	.	.	.	.	36.1
“ “ Erie	.	.	.	.	.	.	.	45.9
“ “ Toledo	.	.	.	.	.	.	.	57.0
Toledo to Erie	.	.	.	.	.	.	.	11.1
Erie to Monroe	.	.	.	.	.	.	.	9.8
Monroe to Trenton	.	.	.	.	.	.	.	20.8
Trenton to Wyandotte	.	.	.	.	.	.	.	4.5
Wyandotte to Detroit	.	.	.	.	.	.	.	10.8

Table of Mileage

ALBANY—SARATOGA SPRINGS

	MILES
Albany to Cohoes	12.2
“ “ Waterford	14.2
“ “ Mechanicsville	22.6
“ “ Maltaville	28.6
“ “ Dunning Street	30.8
“ “ Saratoga Springs	38.6
Saratoga Springs to Dunning Street	7.8
“ “ “ Maltaville	10.0
“ “ “ Mechanicsville	16.0
“ “ “ Waterford	24.4
“ “ “ Cohoes	26.4
“ “ “ Albany	38.6

Table of Distances

ALBANY—SARATOGA SPRINGS

	MILES
Albany to Cohoes	12.2
Cohoes to Waterford	2.0
Waterford to Mechanicsville	8.4
Mechanicsville to Maltaville	6.0
Maltaville to Dunning Street	2.2
Dunning Street to Saratoga Springs	7.8

VIVAX STORAGE BATTERIES



6 VOLT 80 AMPERES
SPECIALLY BUILT FOR
LIGHTING PURPOSES

PRICE-----\$24.00

WE GUARANTEE SATISFACTION

Why The "VIVAX" Excels

Mechanical Strength; Perfect Insulation; Compact and Clean; No Corrosion of Terminals; Free from Mechanical Defects, or Faulty Workmanship.

The "VIVAX" Battery is especially built to withstand the constant jar of the Automobile and may be used on the heaviest truck or the lightest pleasure Vehicle.

VIVAX IGNITION BATTERIES

6 Volt 60 Amperes	-----	\$20.00
6 Volt Special	-----	15.00
6 Volt Junior	-----	11.50



Manufactured by

VIVAX STORAGE BATTERY CO.

2224-2234 Michigan Avenue

CHICAGO, ILLINIOS

Population of Towns

CHICAGO—SOUTH BEND

Chicago	.	.	.	2,049,185
Hammond	.	.	.	15,956
Highlands	.	.	.	25
Hobart	.	.	.	1,390
Wheeler	.	.	.	100
Valparaiso	.	.	.	6,280
Westville	.	.	.	468
La Porte	.	.	.	7,113
New Carlisle	.	.	.	597
South Bend	.	.	.	36,000

Population of Towns

CLEVELAND—BUFFALO

Cleveland, O.	.	.	.	381,768
Willoughby, O.	.	.	.	1,753
Mentor, O.	.	.	.	624
Painesville, O.	.	.	.	5,024
Geneva, O.	.	.	.	2,342
Ashtabula, O.	.	.	.	12,949
Conneaut, O.	.	.	.	7,133
West Springfield, Pa.	.	.	.	203
East Springfield, Pa.	.	.	.	591
Girard, Pa.	.	.	.	691
Fairview, Pa.	.	.	.	327
Erie, Pa.	.	.	.	52,733
Wesleyville, Pa.	.	.	.	567
Harbour Creek, Pa.	.	.	.	161
North East, Pa.	.	.	.	2,068
Ripley, N.Y.	.	.	.	810
Westfield, N.Y.	.	.	.	2,430
Portland, N.Y.	.	.	.	552
Brocton, N.Y.	.	.	.	900
Fredonia, N.Y.	.	.	.	4,127
Sheridan, N.Y.	.	.	.	100
Silver Creek, N.Y.	.	.	.	1,944
Irving, N.Y.	.	.	.	50
Buffalo, N.Y.	.	.	.	352,387

Population of Towns

BUFFALO—SYRACUSE

Buffalo	352,387
Snyder	50
Williamsville	905
Clarence	670
Pembroke	310
East Pembroke	405
Batavia	9,180
Byron	342
Bergen	624
Churchville	505
North Chili	101
Rochester	162,608
Pittsford	1,000
Egypt	162
Macedon	592
Palmyra	1,937
Port Gibson	50
Phelps	1,306
West Junius	29
Magee Corners	61
Auburn	30,345
Sennett	403
Elbridge	549
Camillius	567
Syracuse	108,374

Population of Towns

SYRACUSE—ALBANY

Syracuse	.	.	.	.	.	.	117,493
De Witt	.	.	.	.	.	.	2,509
Fayetteville	.	.	.	.	.	.	1,304
Mycenae	.	.	.	.	.	.	50
Chittenango	.	.	.	.	.	.	787
Sullivan	.	.	.	.	.	.	159
Canastota	.	.	.	.	.	.	3,030
Oneida	.	.	.	.	.	.	3,420
Oneida Castle	.	.	.	.	.	.	291
Sherill	.	.	.	.	.	.	230
Vernon	.	.	.	.	.	.	380
Kirkland	.	.	.	.	.	.	132
New Hartford	.	.	.	.	.	.	1,007
Utica	.	.	.	.	.	.	62,935
Deerfield	.	.	.	.	.	.	691
West Shuyler	.	.	.	.	.	.	261
East Shuyler	.	.	.	.	.	.	108
Frankfort	.	.	.	.	.	.	2,664
Ilion	.	.	.	.	.	.	5,138
Herkimer	.	.	.	.	.	.	5,555
Little Falls	.	.	.	.	.	.	11,122
St. Johnsville	.	.	.	.	.	.	1,873
Nelliston	.	.	.	.	.	.	634
Palatine Bridge	.	.	.	.	.	.	360
Fonda	.	.	.	.	.	.	1,145
Amsterdam	.	.	.	.	.	.	23,923
Scotia	.	.	.	.	.	.	361
Schenectady	.	.	.	.	.	.	58,369
Albany	.	.	.	.	.	.	98,370

Population of Towns

ALBANY—NEW YORK CITY

Albany	.	.	.	.	.	.	98,370
Rensselaer	.	.	.	.	.	.	10,715
Schodack Center			.	.	.	.	102
Kinderhook	.	.	.	.	.	.	913
Stuyvesant Falls			.	.	.	.	792
Stockport	.	.	.	.	.	.	481
Stottville	.	.	.	.	.	.	1,069
Hudson	.	.	.	.	.	.	10,290
Blue Store	.	.	.	.	.	.	134
Upper Red Hook			.	.	.	.	75
Red Hook	.	.	.	.	.	.	857
Rhinebeck	.	.	.	.	.	.	1,449
Staatsburg	.	.	.	.	.	.	479
Hyde Park	.	.	.	.	.	.	2,873
Poughkeepsie	.	.	.	.	.	.	25,379
Wappingers Falls			.	.	.	.	3,504
Fishkill Village	.	.	.	.	.	.	589
Nelsonville	.	.	.	.	.	.	624
Cold Spring	.	.	.	.	.	.	2,067
Peekskill	.	.	.	.	.	.	10,562
Buchanan	.	.	.	.	.	.	75
Croton	.	.	.	.	.	.	100
Ossining	.	.	.	.	.	.	7,939
Tarrytown	.	.	.	.	.	.	4,770
Irvington	.	.	.	.	.	.	2,231
Dobbs Ferry	.	.	.	.	.	.	2,888
Hastings	.	.	.	.	.	.	2,002
Yonkers	.	.	.	.	.	.	61,716
New York City	.	.	.	.	.	.	4,014,304

Population of Towns

ALBANY—SARATOGA SPRINGS

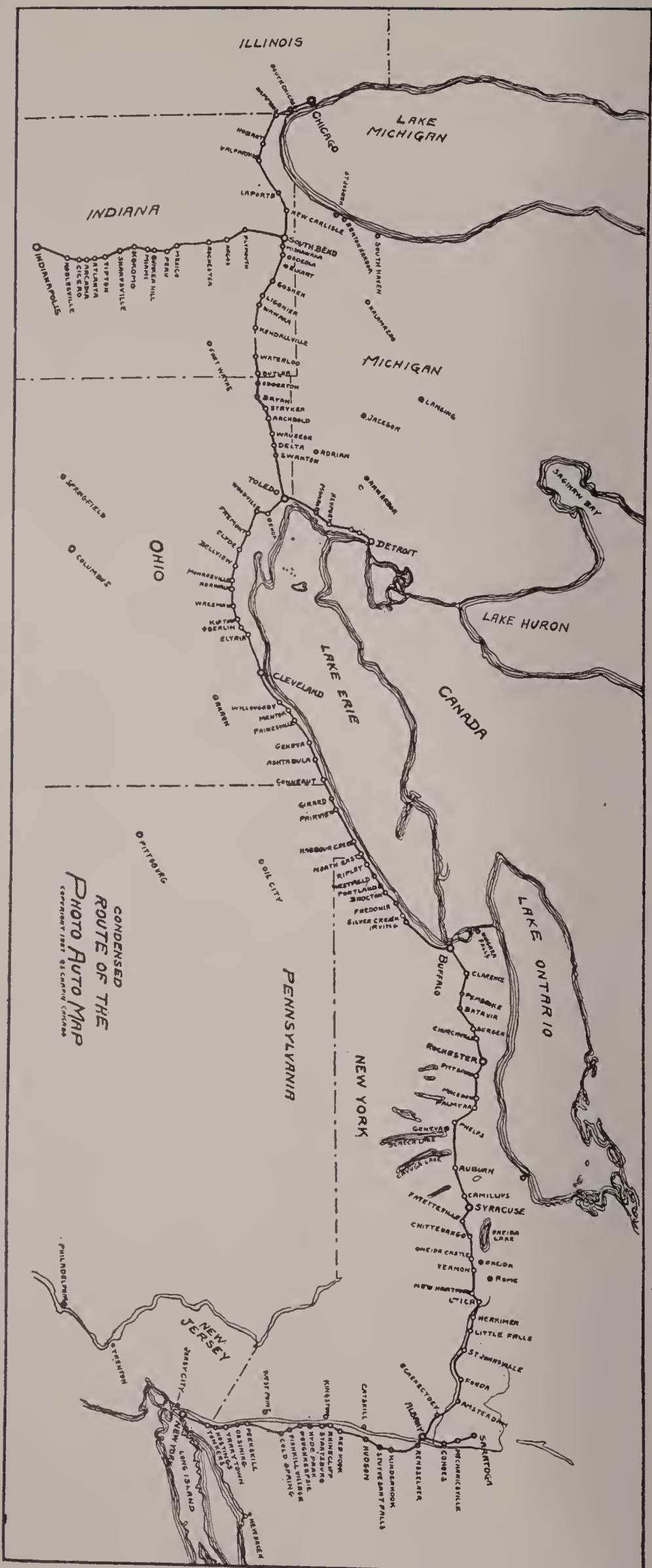
Albany	.	.	.	.	98,360
Cohoes	.	.	.	.	24,183
Waterford	.	.	.	.	3,146
Mechanicsville	.	.	.	.	4,695
Maltaville	.	.	.	.	92
Dunning Street	.	.	.	.	50
Saratoga Springs	.	.	.	.	12,538

Population of Towns

SOUTH BEND—INDIANAPOLIS

South Bend	.	.	.	.	.	36,000
Lapaz	.	.	.	.	.	400
Plymouth	.	.	.	.	.	3,656
Argos	.	.	.	.	.	1,307
Rochester	.	.	.	.	.	3,421
Perrysburg	.	.	.	.	.	700
Mexico	.	.	.	.	.	500
Peru	.	.	.	.	.	11,648
Bunker Hill	.	.	.	.	.	568
Miami	.	.	.	.	.	390
Kokomo	.	.	.	.	.	12,019
Sharpsville	.	.	.	.	.	650
Tipton	.	.	.	.	.	3,764
Atlanta	.	.	.	.	.	1,500
Arcadia	.	.	.	.	.	1,413
Cicero	.	.	.	.	.	1,603
Noblesville	.	.	.	.	.	4,792
Indianapolis	.	.	.	.	.	219,154

Condensed Route of the Photo-Auto Maps



CONDENSED
ROUTE OF THE
PHOTO AUTO MAP
COPYRIGHT 1927 GSCAMPA CHICAGO

PHOTO-AUTO MAPS

No. 1



NEW SOUTHERN HOTEL

MICHIGAN AVENUE AND 13th STREET, CHICAGO, ILL.

STARTING POINT of Photo-Auto Maps in Chicago, Ill. is The New Southern Hotel, situated so convenient to "Automobile Row," it is really considered the very best Hotel in Chicago for automobile tourists. A more delightful place for visitors in Chicago could not be conceived. Their every convenience and comfort is studiously provided for. Splendid Cafe, Restaurant and Grill Rooms in connection. Good garage accommodations may be had one block south of Hotel.

Memo.....

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No. 2



Turn LEFT and go East from Michigan Avenue on 33rd Street.
Next turn South Park Avenue, four-tenths of a mile.

Memo

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No. 3



Turn RIGHT and go South to statue of Washington and
entrance to Washington Park, two miles.

No. 4



WASHINGTON PARK

STRAIGHT AHEAD to Park Refectory Building, five-tenths of a mile.

No. 5



REFECTORY BUILDING ON RIGHT.

Turn LEFT, and keep right at first three drives on left. At administration buildings, with tall chimneys on left, turn right and keep ahead to extreme southeast corner of park; an amusement park adjoins on right. Turn LEFT, leave park, crossing trolley on Cottage Grove Avenue, and continue due East upon Midway Drive, pass under Illinois Central Railroad viaduct, straight ahead to Jackson Park. At red-tiled boat buildings ahead, upon entering park, turn right.

Jackson Park



Turn LEFT, small police box on right. At next drive on left, turn right. At red-tiled rest building on right, turn right. At drive beyond building, turn left.

Memo.....
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Jackson Park



Turn RIGHT to Jeffrey Avenue. Lagoon on left. Three large chimneys can be seen some distance ahead on left after leaving park; real estate sign on right. Keep straight South upon Jeffrey Avenue. Next photo two miles.

No. 6



Turn LEFT on 83rd Street. Do not cross trolley on South
Chicago Avenue on right. Follow 83rd Street to Bal-
timore Avenue at end of street. Next photo one mile.

Memo.....

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No. 7



Turn RIGHT, Baltimore Avenue. Next photo one block

No. 8



Turn RIGHT, Exchange Avenue. Next photo at 92d Street, South Chicago, one mile.

Memo.....
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No. 9



Turn LEFT, 92d Street, South Chicago. Follow trolley to bridge. Next photo six-tenths of a mile.

No. 10



Turn RIGHT, cross bridge, follow trolley to sharp corner Avenue L. Leave trolley, keep ahead on macadam looking out for high cross walks. Cross railroad at East Side Station on left. Turn left one short block then right, turning left with trolley upon Indianapolis Avenue. Next photo one and two-tenths miles.

Memo

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No. 11



Turn LEFT and go South-East. Ewing Avenue and Indianapolis Avenue. Next turn two and one-tenths miles.

No. 12



Turn RIGHT and go South. Next turn at car barns, three and nine-tenths miles.

Remo

No. 13



Turn LEFT, East. Car barns on right, go one block East and turn to right, South, follow street car tracks to Sibley Street, Hammond, one and one-tenth miles. The Majestic Hotel Cafe is on Homan Avenue, one hundred feet north of Sibley Street, on left hand side of street. This cafe is open day and night and offers to automobile parties the parlor and toilet facilities of the Majestic Hotel which is first-class in every particular.

No. 14



HAMMOND

Turn LEFT, East. Turn left from Homan Avenue to Sibley Street. Half a block before turn, on the left side of the street is the Majestic Hotel and Cafe, the best in Hammond. Next turn one mile.

Memo

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No. 15



Turn RIGHT, South, Lafayette School on left. Next turn one and three-tenths miles.

No. 16



Turn LEFT, East. All four corners vacant. Next turn five-tenths of a mile at ice house.

Remo

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No. 17



Turn RIGHT, South. Saloon on left at turn. Next turn two and three-tenths miles.

No. 18



Turn LEFT, East. Next turn at Highlands, two and three tenths miles. Road to right and south leads to Cro Point and Cedar Lake.

Memo

No. 19



HIGHLANDS

Turn RIGHT, South, then East. Go one hundred feet south do not cross tracks, turn east passing factory and grocery. Next turn seven and nine-tenths miles.

No. 20



Turn LEFT, East. Follow wires. Next photo Hobart, three and two-tenths miles.

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No. 21



HOBART

Turn LEFT, South. Next turn two-tenths of a mile.

No. 22



Turn LEFT, North-East. After passing R. R. depot, turn right to street's end, then to left to street's end, then right. Next photo three and six-tenths miles.

Memo

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No. 23



Turn RIGHT, South. Large barn on left. Follow wire. Next turn one mile.

No. 24



Make "S" turn and continue going south. Follow wires. Next photo Wheeler, six-tenths of a mile.

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No. 25



WHEELER

Turn LEFT, South-East. Next turn five-tenths of a mile. Reduce speed and avoid trouble with authorities.

No. 26



Turn RIGHT, leaving Wheeler on "S" turn, continuing East.
Next photo four and seven-tenths miles at end of road.

Memo

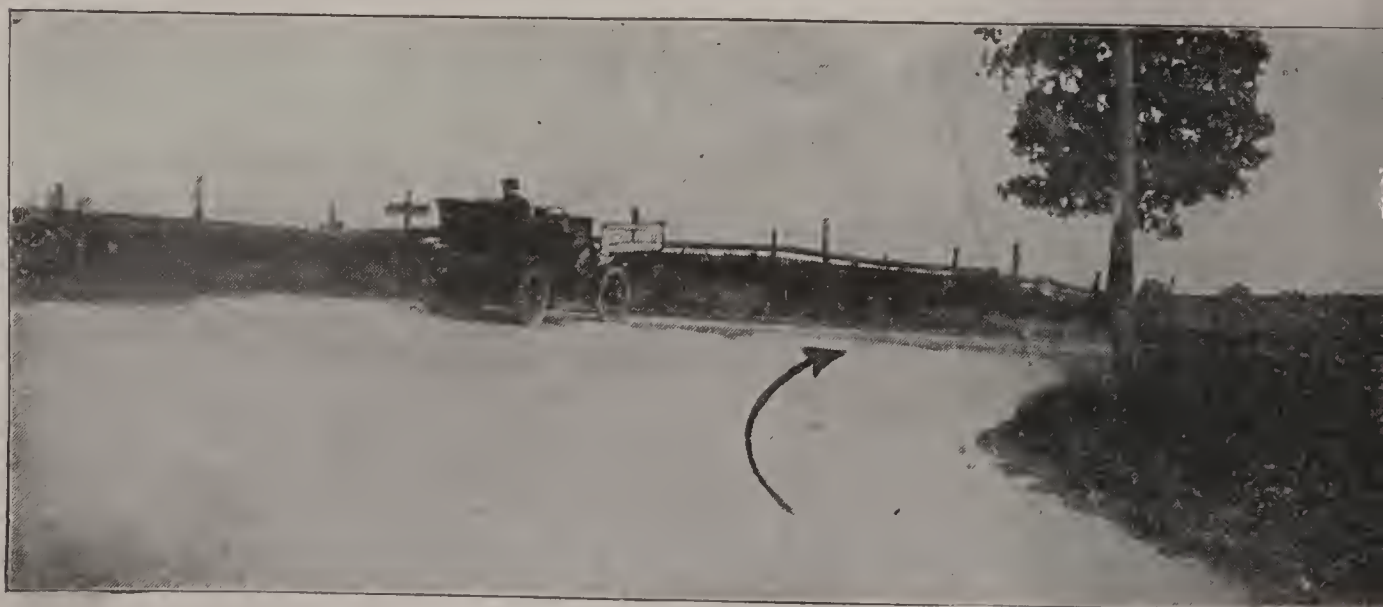
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No. 27



Turn RIGHT, South. Red barns and wind mill on right.
Next turn two and three-tenths miles at Valparaiso.

No. 28



VALPARAISO

Turn RIGHT, East, Main Street, keep straight ahead through town. Next photo top of hill, one and two-tenths miles. HOTEL LAFAYETTE six tenths of a mile, on right side of street, one block this side of Court House. This hotel is the best between Chicago and South Bend. Special meal arrangements can be made by long distance telephone 991. One block before hotel is reached is Zimmerman's garage—expert machinists always ready for service. After hours ring bell on side office door.

No. 29



Turn RIGHT, South, go one hundred and fifty feet to next street, then turn left and east. Next turn two and six-tenths miles.

No. 30



Turn LEFT, North-East, cross roads. Next turn one a three-tenths miles, after crossing small bridge.

Memo

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No. 31



Turn RIGHT, East, after crossing small bridge. Next photo at foot of sand hill, seven-tenths of a mile.

No. 32



STRAIGHT AHEAD, East. Next photo two-tenths of a mile at top of hill.

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No. 33



Take LEFT road. Next photo two miles.

No. 34



Take RIGHT hand road, North-East. Next photo leave Westville three miles.

Memo

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No. 35



WESTVILLE

Turn RIGHT, South. Go one hundred and fifty feet and turn left and east. Next photo eight miles. The north and south road at photo 35 leads direct to Michigan City.

No. 36



STRAIGHT AHEAD, left road. Follow poles with most wires. Next photo one and three-tenths miles.

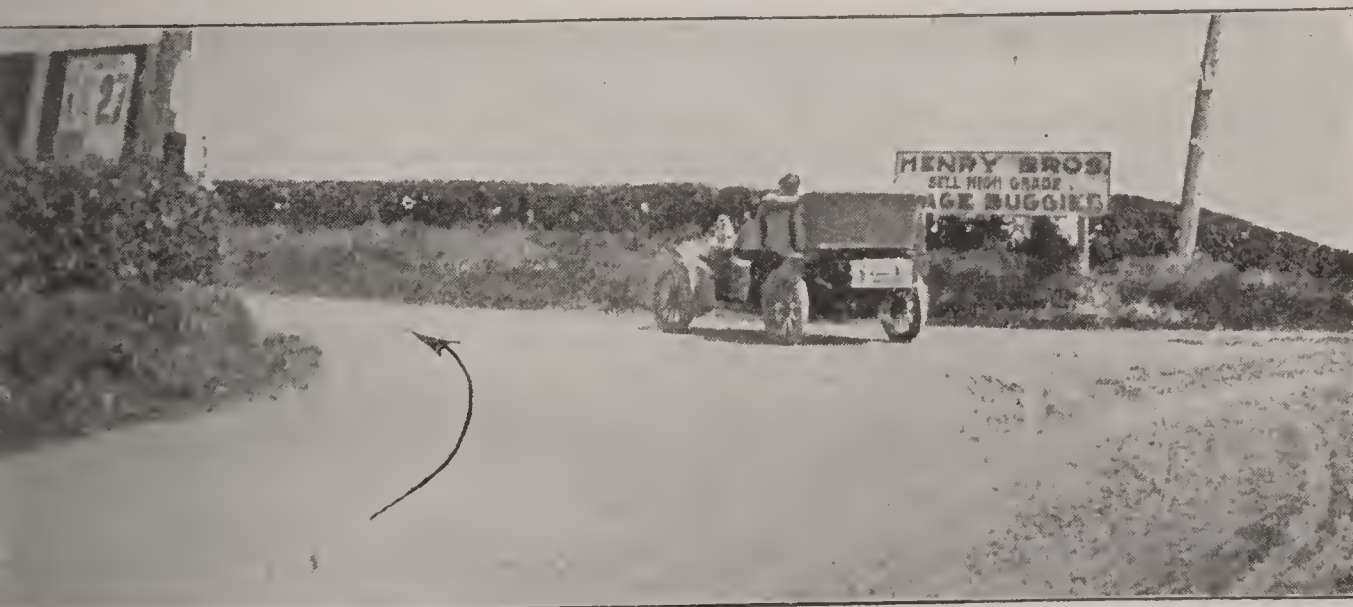
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No. 37



Turn LEFT, North. Follow the wires. Next photo nine-tenths of a mile.

No. 38



Turn RIGHT, East. Small lake on left, half a block distance. Large hole on left after turning. Go two blocks then turn left and straight ahead to Main Street. Go straight through town, passing Court House. Next photo three and two tenths miles. For Automobile Maintenance Garage turn right one block beyond Court House and go one half block. This garage is well equipped and is open day and night.

Memo

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No. 39



Take LEFT hand road. Follow poles with most wires. Next photo four and five-tenths miles.

No. 40



STRAIGHT AHEAD, North-East. Next photo South Bend twenty and five-tenths miles. Before coming to South Bend New Carlisle is passed, five and two-tenths miles. Follow the wires.

Remo

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No. 41



SOUTH BEND

Turn RIGHT, South. Turn from La Salle Street into Main Street, go two blocks to Hotel Oliver.

No. 42



HOTEL OLIVER, SOUTH BEND, IND.

This hotel is one of the best encountered between Chicago and New York. Every facility possible is provided for the comfort of its guests. Auto parties given special attention. Next photo (No. 43) at this corner.

Memo



THE TWENTIETH CENTURY GARAGE

SOUTH BEND, IND.

Located one block west of Hotel Oliver, and half a block south on right-hand side of Lafayette Street. This garage is equipped with a first-class machine shop and special attention is given to tourists.

Memo

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No. 43



Turn LEFT from Main Street into Washington Street at Hotel Oliver. Next photo two blocks.

No. 44



Turn RIGHT and South-East from Washington Street into Vistula Avenue. Mishawaka four and five-tenths mile. Next photo seven and two-tenths miles.

Memo

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No. 45



Take RIGHT road at fork. Follow wires. Next photo Osceola, two and nine-tenths miles.

No. 46



OSCEOLA

Turn RIGHT at end of road and cross tracks; then turn left and continue East. Dunlap eight and six-tenths miles. Next photo in Goshen, thirteen and seven-tenths miles.

Memo

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No. 47



GOSHEN

Turn LEFT and cross bridge. Next photo at Main Street, four-tenths of a mile.

No. 48



GOSHEN

Turn RIGHT into Main Street. Follow the car tracks. Goshen Automobile Company garage one-half block—the best in Goshen for supplies and repairs. The Hascal Hotel on one block—this is the best hotel in Goshen. Next photo five tenths of a mile.

Memo

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No. 49



Turn LEFT and East from Main Street into Madison Street. Next photo at end of road, six-tenths of a mile.

No. 50



Turn RIGHT and South at end of road. Next photo five miles.

Memo

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No. 51



Turn LEFT and South-East. Follow wires. Benton one and six-tenths miles. Next photo five and eight-tenths miles.

No. 52



Turn RIGHT and South. Follow wires. Next photo six-tenths of a mile.

Memo

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No. 53



Turn LEFT and East. School on left of turn. Follow most wires. Next photo in Ligonier, five and nine-tenths miles.

No. 54



LIGONIER

Turn RIGHT and South into Main Street. Next photo at fountain, three-tenths of a mile.

Remo

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No. 55



Take LEFT street at fountain. Next photo one-tenth of a mile.

No. 56



Turn LEFT from Main Street. Next photo at end of road
one and two-tenths miles.

Memo

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No. 57



Turn RIGHT and South at end of road. Follow wires. Nex
photo two-tenths of a mile.

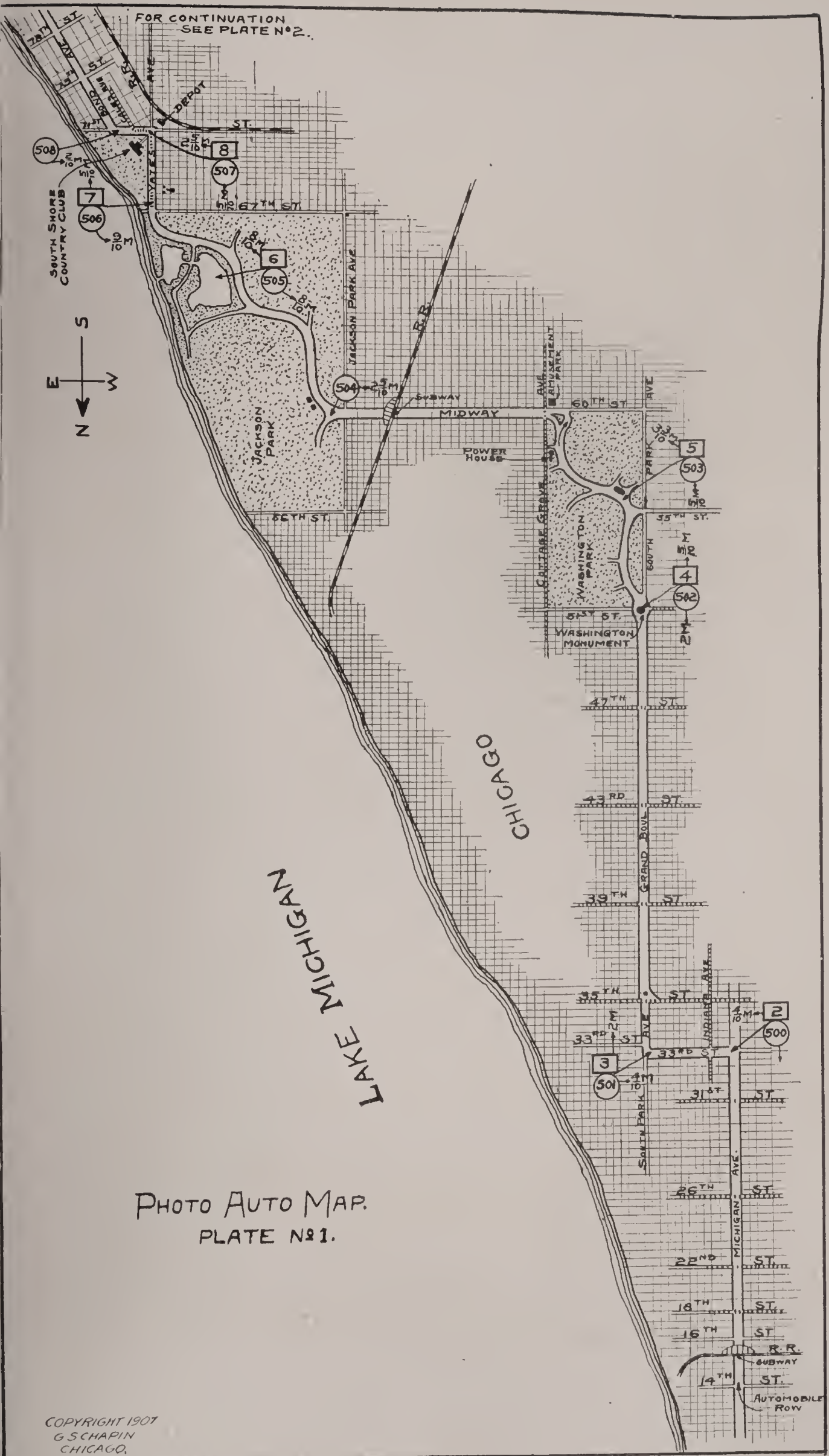


PHOTO AUTO MAP.
PLATE N°1.

FOR CONTINUATION
SEE PLATE No 3

BRIDGE

TO CROWN POINT

BRIDGE

ICE HOUSE

SCHOOL

MAJESTIC HOTEL & CAFE

HAMMOND

LITTLE CALUMET RIVER

CAR BARRS

ICE HOUSE

BRIDGE

R.R.

CHICAGO CITY LIMITS

LAKE MICHIGAN

RACE TRACK

CHICAGO

ILLINOIS ST

78TH ST

79TH ST

80TH ST

81ST ST

82ND ST

83RD ST

84TH ST

85TH ST

86TH ST

87TH ST

88TH ST

89TH ST

90TH ST

91ST ST

92ND ST

93RD ST

94TH ST

95TH ST

96TH ST

97TH ST

98TH ST

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137TH ST

138TH ST

139TH ST

140TH ST

141ST ST

142ND ST

143RD ST

144TH ST

145TH ST

146TH ST

147TH ST

148TH ST

149TH ST

150TH ST

151ST ST

152ND ST

153RD ST

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FOR CONTINUATION
SEE PLATE NO. 1

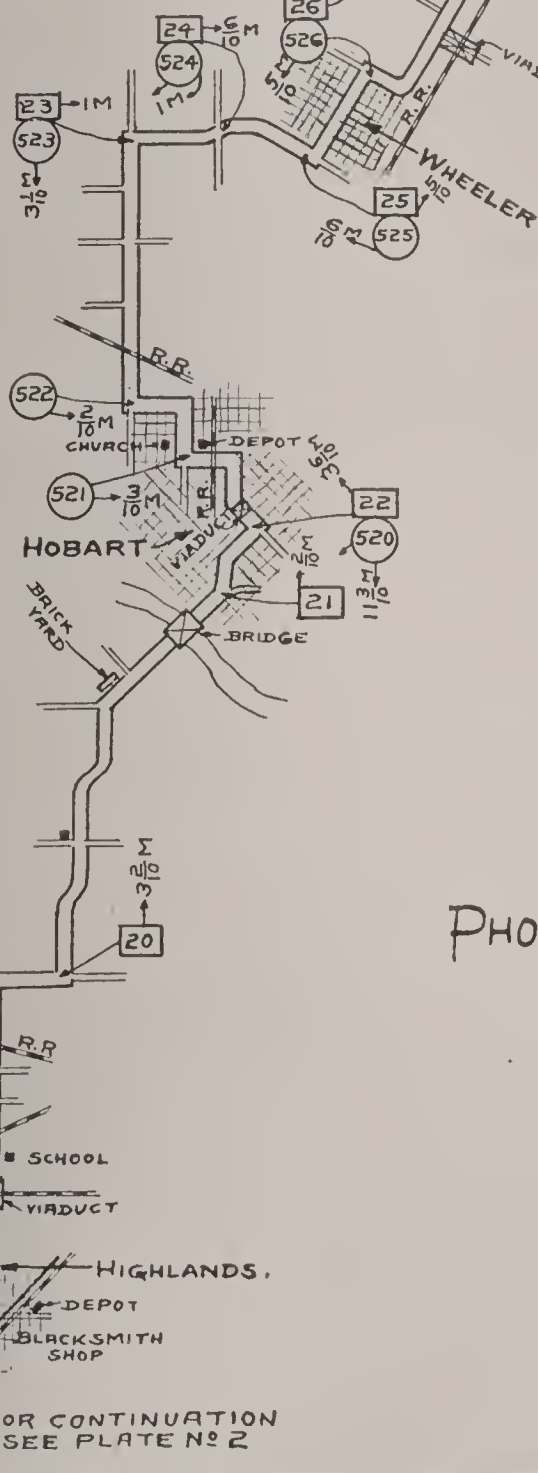
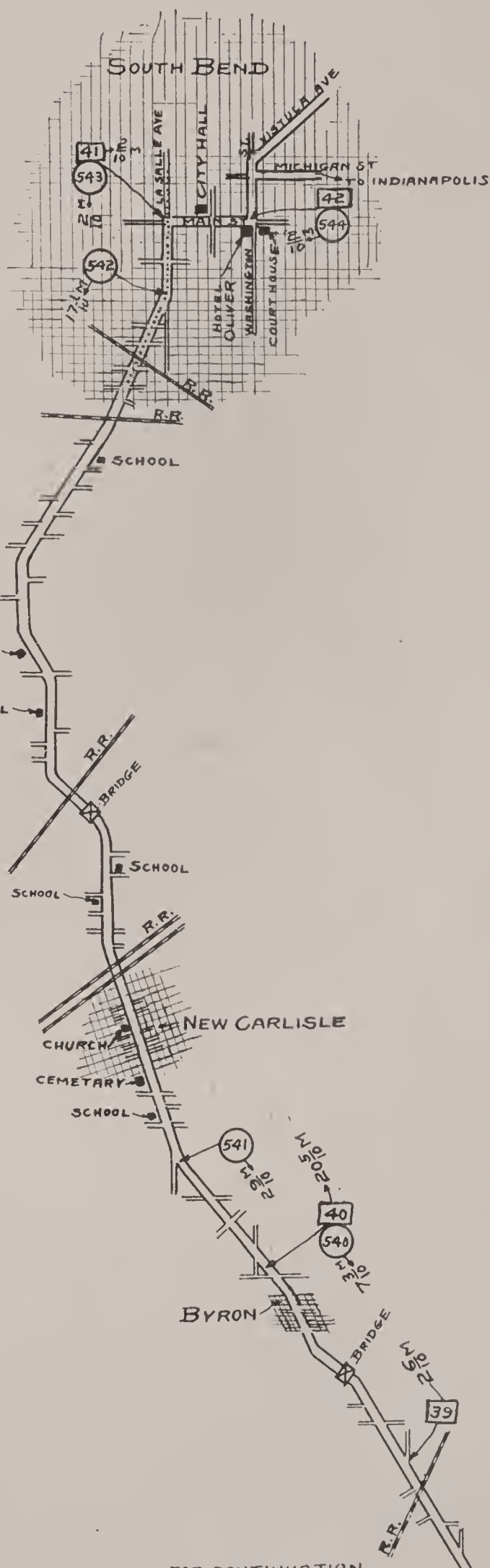
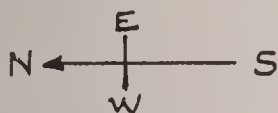


PLATE No 3.

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G S CHAPIN
CHICAGO.





PHOTOAUTOMAP
PLATE N^o 5.

FOR CONTINUATION
SEE PLATE No. 7

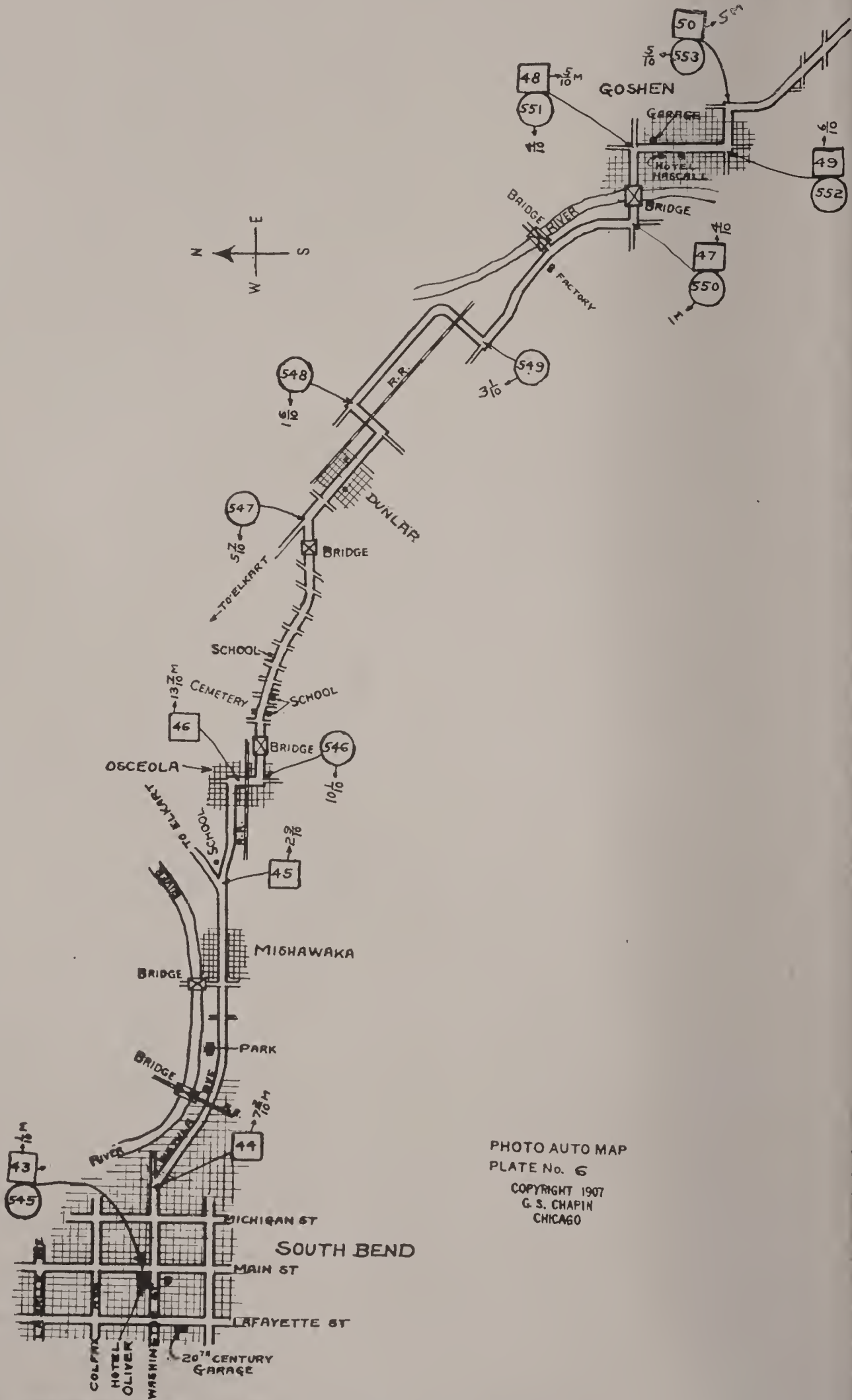


PHOTO AUTO MAP
PLATE No. 6
COPYRIGHT 1907
G. S. CHAPIN
CHICAGO

PHOTO-AUTO MAPS

SOUTH BEND TO CHICAGO

No. 544



HOTEL OLIVER, SOUTH BEND, IND.

This hotel is one of the best encountered between Chicago and New York. Every facility possible is provided for the comfort of its guests. Auto parties given special attention. Next photo (No. 543) two blocks.

Memo

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TWENTIETH CENTURY GARAGE

SOUTH BEND, IND.

Located one block WEST of Hotel Oliver and half a block South on Lafayette Street. This garage is equipped with a first-class machine shop, and special attention is given to tourists.

Memo _____

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No. 543



Turn LEFT, West. Turn from Main Street into La Salle Street, two blocks from the Hotel Oliver. Next turn two tenths of a mile.

Memo

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No. 542



Turn RIGHT, West. Follow street car tracks to end of brick pavement. Next photo seventeen and one-tenth miles, after passing through New Carlisle, fourteen miles. Follow the wires.

No. 541



Turn LEFT, South-West. Cottage ahead on right at turn.
Next turn two and nine-tenths miles. Road on right leads
to Rolling Prairie.

Remo

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No. 540



STRAIGHT AHEAD, South-West. White frame dwelling
on left. Next photo seven and three-tenths miles.

No. 539



Turn LEFT. Mill on left, go to end of street and turn t
right, go two blocks. Next photo five-tenths of a mile.

Memo

No. 538



Turn LEFT, South. Large hole on right, small lake one
block ahead on right. Next photo nine-tenths of a mile.

No. 537



Turn RIGHT, West. Next photo three-tenths of a mile.

Memo

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No. 536



Turn LEFT. Next photo three-tenths of a mile.

No. 535



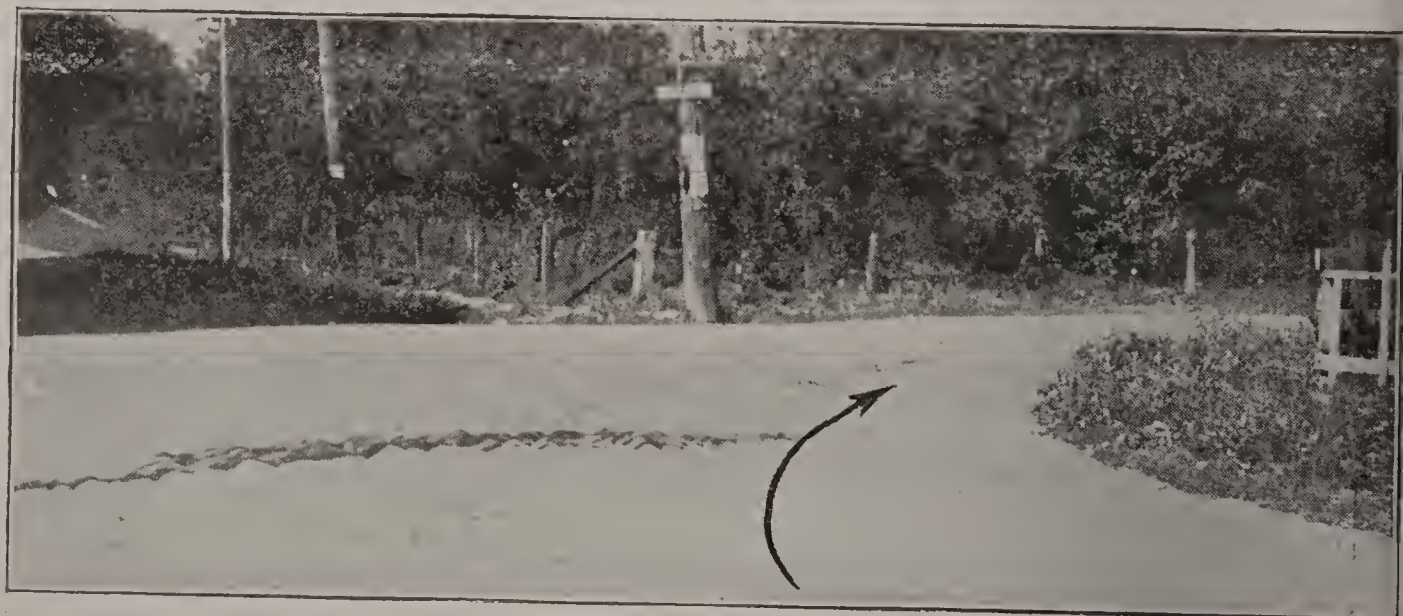
Turn RIGHT, West. Follow the wires. Next photo Westville, nine miles.

Memo

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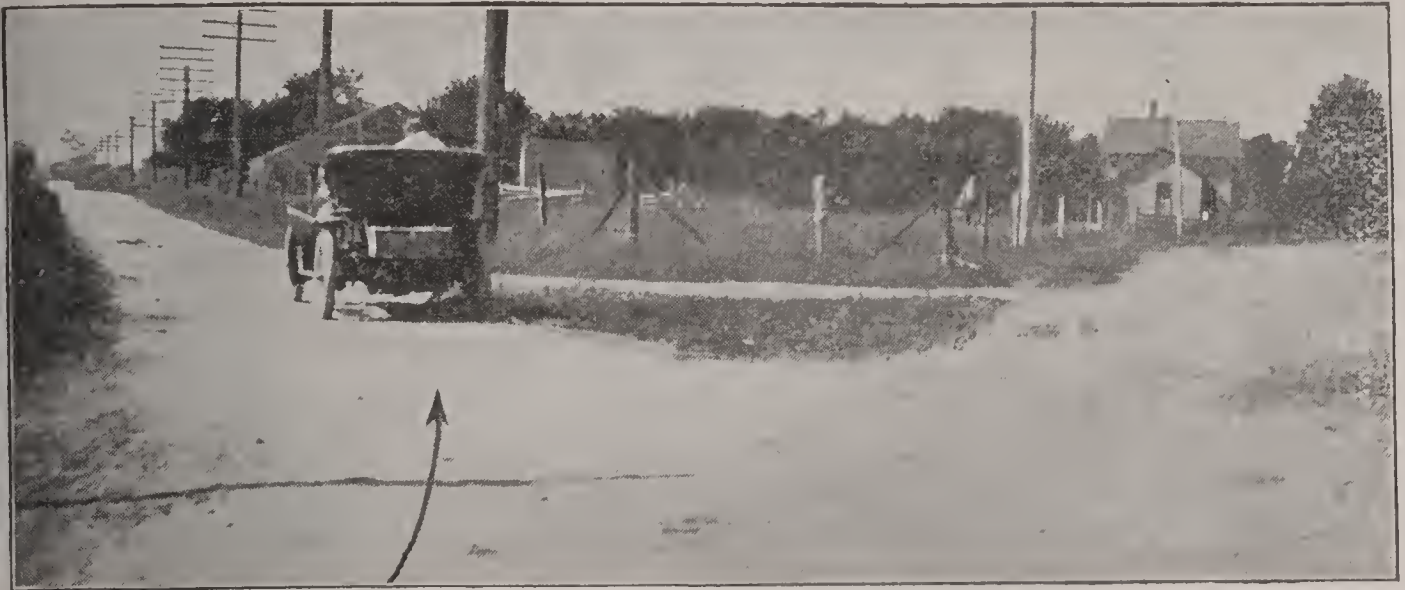
No. 534



WESTVILLE

Turn RIGHT, North. After going one hundred and fifty feet turn left on Main Street in Westville, keep straight ahead through town, passing under R. R. embankment. Next photo eight-tenths of a mile.

No. 533



Turn LEFT, West, after passing under R. R. embankment.
Next photo two and three-tenths miles.

Memo

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No. 532



STRAIGHT AHEAD. Next photo after arriving at end of
road, turning to left and crossing small bridge, three and
five-tenths miles.

No. 531



Turn RIGHT, South-West. After crossing small bridge
main on main road. Next turn at cross roads, one a
three-tenths miles.

Memo

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No. 530



Turn RIGHT, West. Cross roads. Next turn Valparaiso
two and six-tenths miles.

No. 529



VALPARAISO

Turn RIGHT, North. Go one hundred and fifty feet, then left on Main Street to end of town, passing railroad depot and viaduct. Next turn one and three-tenths miles. One block past Court House on same side of street is Hotel Lafayette. This hotel is the best between South Bend and Chicago. Special meal arrangements can be made by long distance telephone 991. One block beyond hotel is Zimmerman's garage—expert machinists always in waiting. After hours ring electric bell on side office door.

memo

No. 528



Turn RIGHT, North. Next photo at group of barns and wind mill, two miles.

No. 527



Turn LEFT, West. Wind mills and group of barns on left.
Next photo Wheeler, four and seven-tenths miles.

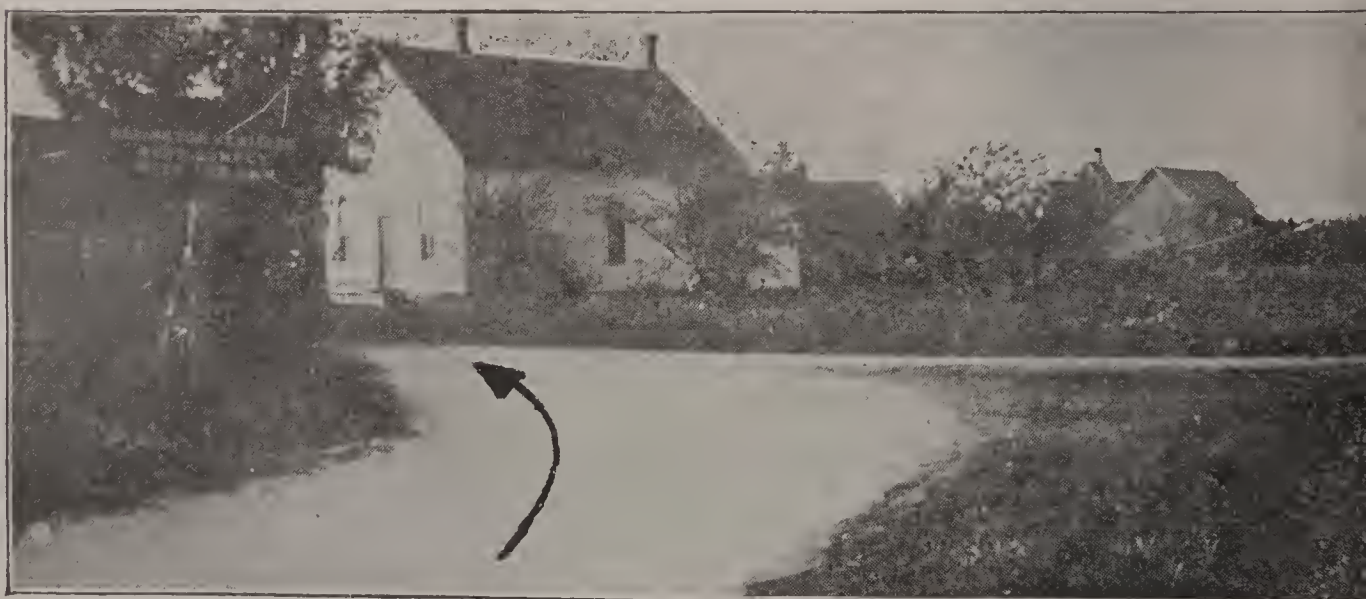
Memo

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No. 526



WHEELER

Turn LEFT entering Wheeler. Look out for disguised bump just beyond turn. Next turn at street's end, five-tenths of a mile. Reduce speed in village.

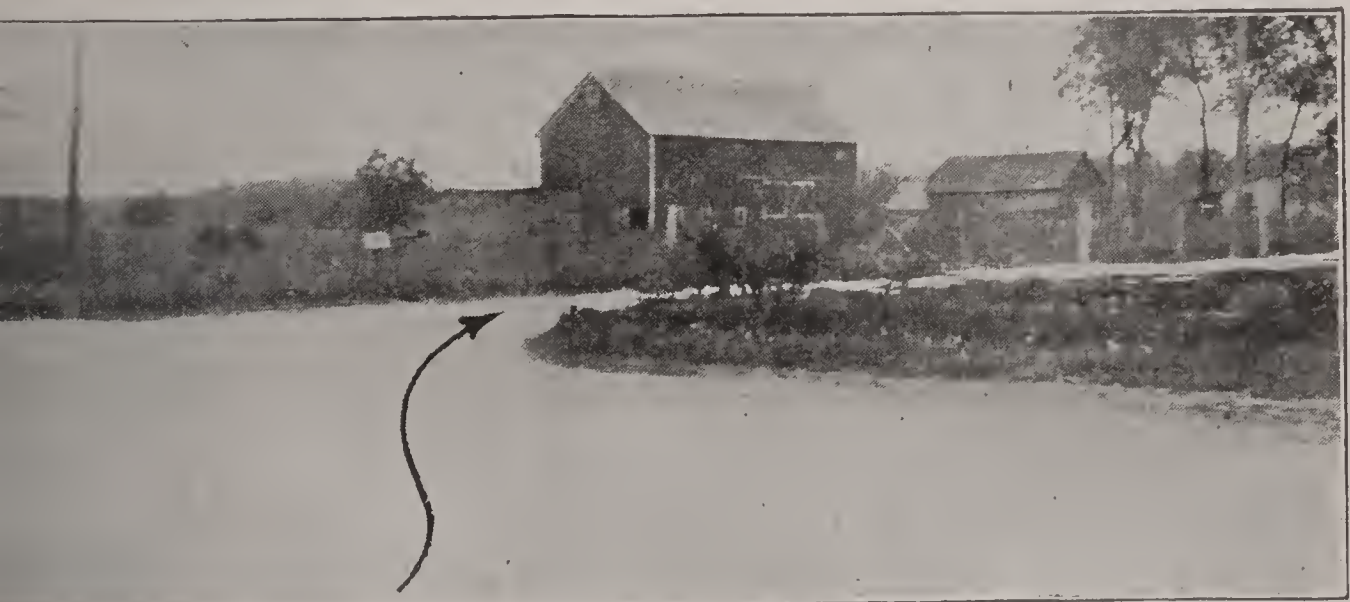
No. 525



rn RIGHT, North-West. Next photo at "S" turn, six-
eighths of a mile.

mo

No. 524



Continue going North after making "S" turn. Follow wires.
Next turn at road's end, one mile.

No. 523



Turn LEFT, West. Follow wires. Next turn Hobart, th
and one-tenth miles.

Memo

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No. 522



Turn LEFT and go South to street's end, then right. N
photo two-tenths of a mile.

No. 521



Turn LEFT, South. Hobart depot on left, turn right after passing depot. Next turn in Hobart, three-tenths of a mile.

emo

No. 520



HOBART

Turn RIGHT, North-West. Follow the wires. Next photo Highlands, eleven and three-tenths miles.

No. 519



HIGHLANDS

Turn LEFT, West. Next turn two and three-tenths miles

Memo

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No. 518



Turn RIGHT, North. Road-house on left. Next turn two and three-tenths miles.

No. 517



Turn LEFT, West. Saloon on right at turn. Next turn
five-tenths of a mile.

memo

No. 516



Turn RIGHT, North. Next turn at Lafayette School, one
and three-tenths miles.

No. 515



Turn LEFT, West. Lafayette School on right. Next turn one mile.

Memo

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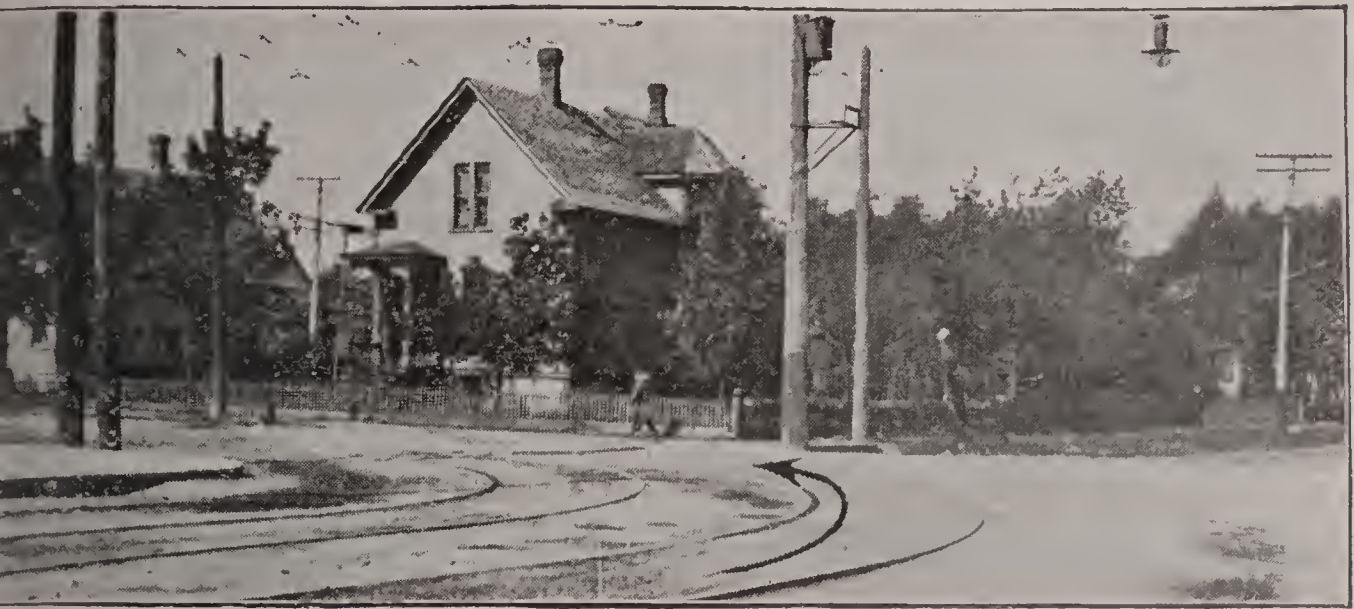
No. 514



HAMMOND

Turn RIGHT, North. Turn right from Sibley Street to Ho
man Avenue. Half a block beyond turn is the Majestic
Hotel and Cafe. The management extends first class hote
facilities to automobile parties. Next turn one mile.

No. 513



Turn LEFT and go West. Go one block west and turn with
car tracks. Next turn four miles.

emo

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No. 512



Turn LEFT, North-West. Follow car tracks to Ewing Ave-
nue, two and one-tenth miles.

No. 511



Turn RIGHT and go North, Ewing and Indianapolis Avenues. Follow car tracks across bridge to 92nd Street and Buffalo Avenue, one and eight-tenths miles.

Memo

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No. 510



Turn LEFT, 92d Street, South Chicago. Continue Exchange Avenue. Next photo six-tenths of a mile.

No. 509



On RIGHT, Exchange Avenue, statue of Columbus on
left. Next photo 83d Street, one mile.

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No. 508



On LEFT. Follow macadam to Jeffrey Avenue, one
mile.

No. 507



Turn RIGHT, Jeffrey Avenue, follow macadam Nor
Next photo two miles.

Memo.....

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No. 506



JACKSON PARK.

Enter park, turning LEFT upon first drive.

No. 505



on LEFT. Lagoon and stone bridge on right.

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No. 504



on RIGHT. Lagoon on right.

No. 503



Turn LEFT, red-tiled rest building on left. Tennis courts and Golf links on left.

Memo

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No. 502



Turn RIGHT, small police box on left.

No. 501



Turn **LEFT**, red-tiled boat building on right. Leave park. Continue straight West upon Midway Drive, passing under Illinois Central Railroad viaduct.

Memo.....

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No. 500



MIDWAY DRIVE.

Keep **STRAIGHT AHEAD**, crossing Cottage Grove Avenue trolley, and enter Washington Park, turning right, passing administration buildings of parks on right, follow drive left to long, low building on left. (Refectory.)

No. 499



Keep to RIGHT and North. Refectory on left. Leave park at 51st Street. Grand Boulevard five-tenths of a mile.

Memo

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No. 498



STRAIGHT AHEAD. Leave park at Grand Boulevard and 51st Street, passing statue of Washington. Next turn two miles, South Park Boulevard and 33rd Street.

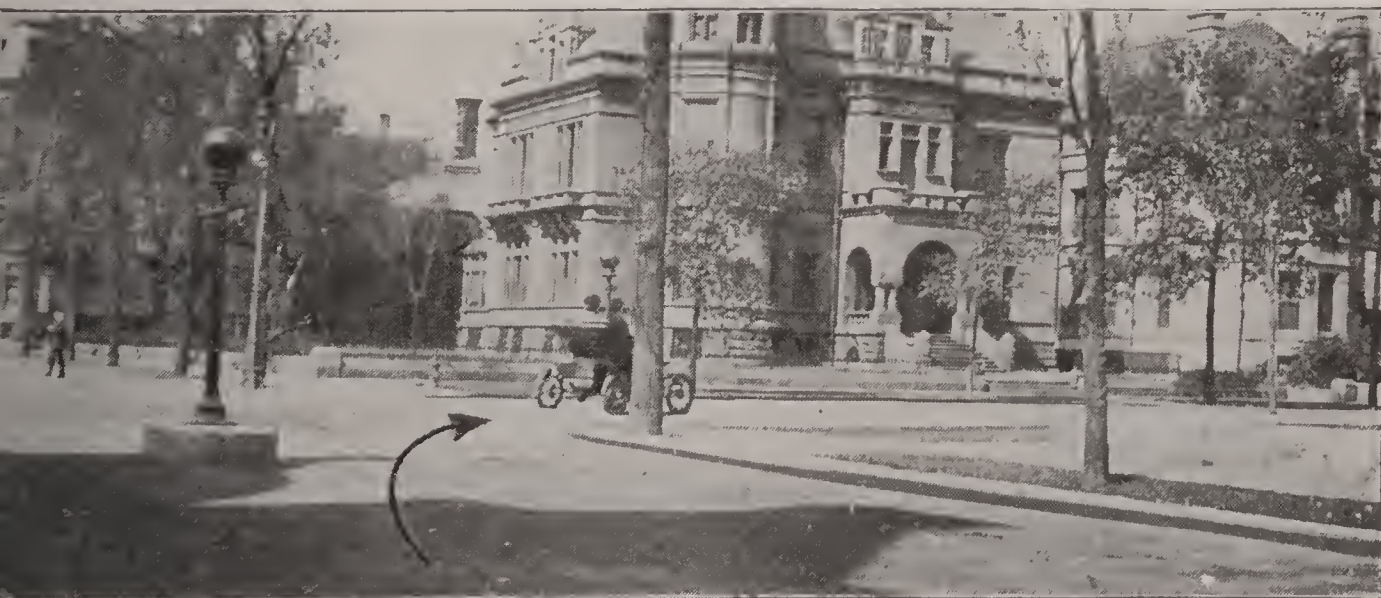
No. 497



turn LEFT and go West, South Park Boulevard and 33rd Street. Next turn Michigan Avenue and 33rd Street, four-tenths of a mile.

Remo

No. 496



turn RIGHT and go North. Michigan Avenue and 33rd Street last turn.

No. 495



NEW SOUTHERN HOTEL

MICHIGAN AVENUE AND 13th STREET, CHICAGO, ILL.

FINISHING POINT of Photo-Auto Maps in Chicago, Ill. is The New Southern Hotel, situated so convenient to "Automobile Row," it is really considered the very best Hotel in Chicago for automobile tourists. A more delightful place for visitors in Chicago could not be conceived. Their every convenience and comfort is studiously provided for. Splendid Cafe, Restaurant and Grill Rooms in connection. Good garage accommodations may be had one block south of Hotel.

Memo.....

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NOTHING ADDS MORE TO THE JOY
OF TOURING THAN A SET OF

Reliance

REG. U.S. PAT. OFFICE

SPARK PLUGS

"THEY SPARK IN WATER"

**MORE
THAN
ORDINARY**



¶ To be free from the most frequent of road trouble, dirty, sooty, short-circuited plugs, is a pleasure which is yours if you will use Reliance Spark Plugs.

¶ Then again you will get more mileage out of your dry cells or batteries, for Reliance Spark Plugs are so constructed that the minimum amount of current is consumed and yet you will get the maximum heat in the spark.

¶ Reliance Plugs are built according to correct electrical principles, no moving parts or valves being employed, and they require absolutely no cleaning or attention.

Our literature will tell you the whys and wherefores and impress upon you why Reliance Spark Plugs are *more than ordinary*.

Write today.

JEFFERY = DEWITT COMPANY

SPARK PLUG MANUFACTURERS

206 High Street

Newark, New Jersey

YOUR OLD CASING

is good enough for **5000 miles** more if
equipped with a

Triple Tread

3-ply steel studded, specially prepared
leather and made a part of the old tire.

Puncture proof and **non-skid**.

Costs very little more than the
ordinary rubber retread.

**Remember we guarantee Triple
Tread 5000 miles.**

This is a worn out
casing as it comes to
us to be **MADE NEW**

Send the Old Casing at once.

Triple Tread Auto Tire Mfg. Co.

Phone Cal. 2456

1545 Michigan Ave., Chicago

When your old cas-
ing is **MADE NEW**
it looks like this—
Guaranteed 5000
miles.

Cummer's Perfect Elastic Auto Top Gloss



Automobile, Carriage Top and
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For all kinds of Leather,
Pantasote
OR
Rubber.

For Tops, Seats,
Guards, Straps and Upholstery

Unexcelled for all kinds of Leather Uphol-
stered Furniture such as Chairs, Sofas, etc.

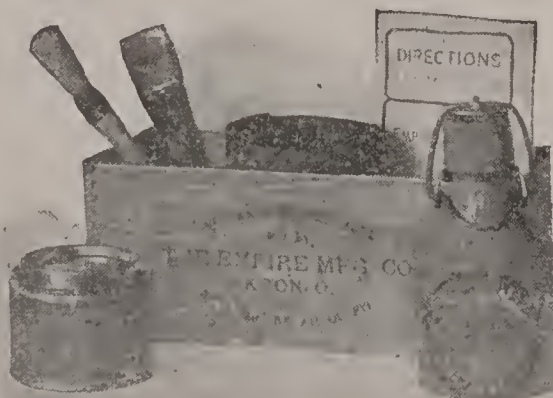
Does not crack or come off. Perfectly
waterproof. Dries in thirty minutes. Any-
one can do the work.

THE JAMES W. CUMMER COMPANY

Write for Sample

CLEVELAND, OHIO

At Your Dealers
\$3.00 per gallon
\$1.75 per half gal
90c per quart
Or With Cash Order



AKRON REPAIR KIT—\$1.00 Complete

THE EMPIRE MANUFACTURING COMPANY, AKRON, OHIO

NO MORE FLAT TIRES

Just Carry an AKRON REPAIR KIT

An acid cure process that vulcanizes the cement
to the rubber, making it one solid piece, and by
which any repair to your inner tube or casing is
permanently made at any time and any place.
YOU ARE ON YOUR WAY IN A MOMENT
—and there is no hard work about it either, doesn't
even soil your hands. Heat, moisture or hard usage
will absolutely not affect a repair properly made
with this cement and solution, and it's not injurious
to the finest quality rubber.

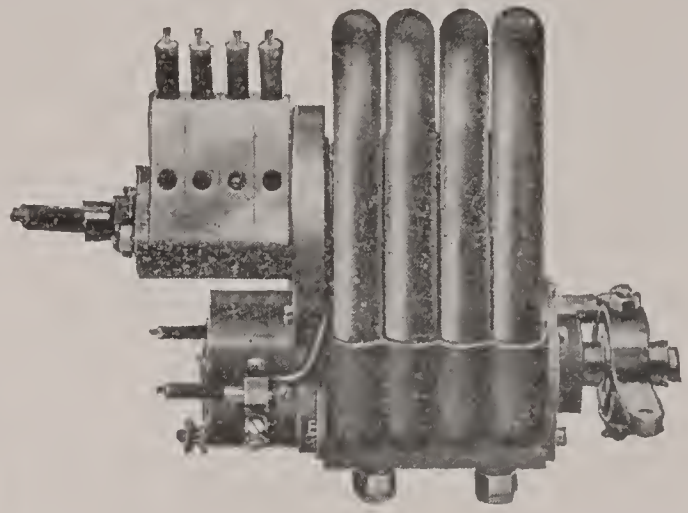
A SEASON'S SUPPLY FOR THE MOTORIST

all put up in a handy little box, with all needed
tools, rubber patches, etc. For sale by dealers and
jobbers. If your dealer does not handle it, write
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Write us about the "Akron" Tire Boot and
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A HEINZE MAGNETO

Will make a new motor
out of your old one



HEINZE ELECTRIC CO.

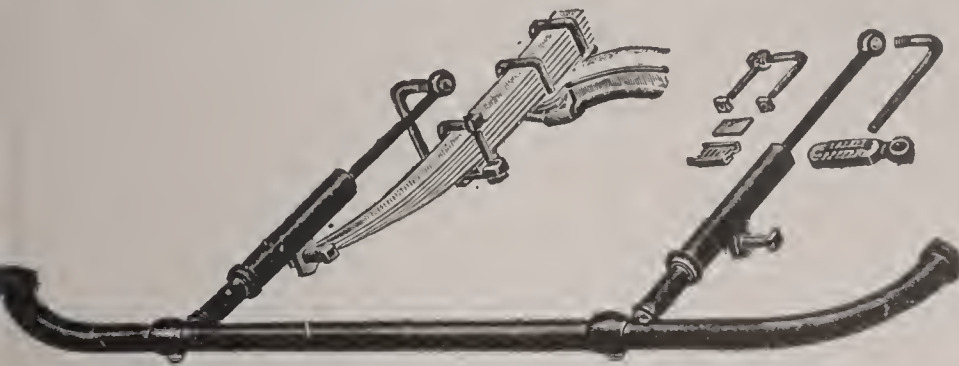
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An Economical
Insurance
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Attractive in Design
Easily Attached

No Drilling of Frame
Fits All Cars

Has the points of merit of others as
well as valuable features of its own

LOWEST IN PRICE YET SELLS ON ITS MERITS

SOLD ONLY THROUGH DEALERS

Write for Special Introductory Offer

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ROCHESTER SAFETY LOCK FOR AUTOMOBILES



"A Lock that Locks"

It is not necessary to drill your steering bar full of holes. Only one hole to drill and the lock is ready to place in position. Interchangeable combination. THIEF PROOF. Absolutely keyless. Ask your dealer or write direct for descriptive matter.



MOTOR CAR SUPPLY CO.

1451-53-55

Michigan Avenue

CHICAGO AGENTS

Our four-tumbler adjustable hasp Key Auto Lock will lock any automobile, motor cycle, bicycle, steamship gear, or can be used as a padlock. Also THIEF PROOF. Ask your dealer for prices or write us direct for descriptive matter.

Rochester Safety Lock Co.
ROCHESTER, IND.

IS IT REASONABLE TO SUPPOSE
that over sixty leading manufacturers of
automobiles would use and recommend



for transmissions and bearings if these
lubricants did not show best results in
increasing efficiency, preventing wear,
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for a doubt — try non-fluid oils.

"IT SUITS BECAUSE IT DOESN'T SOOT"

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TRADE MARK REGISTERED, U.S. PATENT OFFICE.

for cylinder lubrication accomplishes what is
claimed for other oils by lubricating effectively and
economically without carbonizing. It increases
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power on less gasoline.

Sole Producers: NEW YORK & NEW JERSEY
LUBRICANT CO., 165 Broadway, N. Y. City



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"THAT STRANG" SPARK PLUG — SHOULD BE USED BY YOU —

- 1.—"THAT" BROAD GUARANTEE The No-Trubble Plug
We hereby agree to replace any plug that fails to work
or is defective in any manner whatsoever within one year
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- 2.—It is designed by LEWIS STRANG—THE WINNER—
Who KNOWS HOW A SPARK PLUG should be made
- 3.—IT'S MICA—But so made that it can not short circuit.
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If your dealer does not **yet** handle "THAT STRANG" PLUG—
WRITE US AND WE WILL See that you are supplied.

LEWIS STRANG SUPPLY CO.
2230 BROADWAY - - NEW YORK CITY

Keep Your Auto Radiator and
Water Jacket Clean by Using



Automobile Radiator
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Canister, \$1.00

You can't afford to ruin your expensive
radiator and Water Jacket through corrosion,
when it can be prevented for so small a cost.

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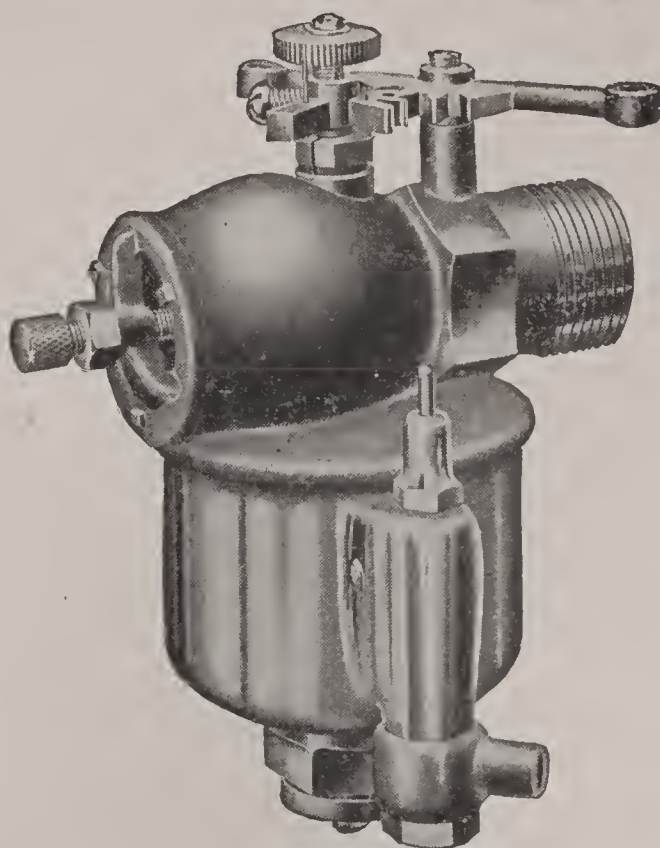
DIRT, RUST and GREASE from ENGINE
WATER JACKETS and RADIATORS, CREATES
PERFECT CIRCULATION of the WATER
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Sold by all Auto Supply Stores and
Garages, or direct from

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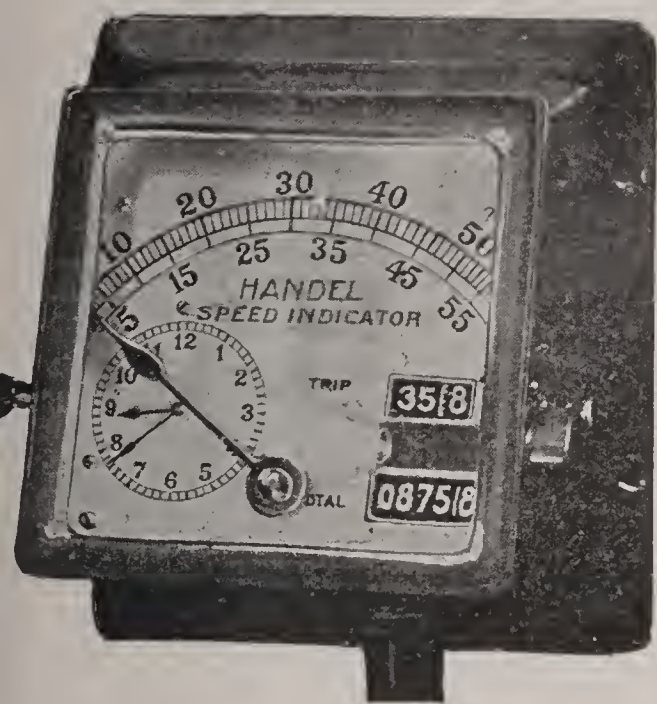
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MODEL "C" HEITGER CARBURETER



Made in all regular sizes. Special types for Ford and Buick
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Handel Speed Indicator

It is absolutely accurate

It is simply and compactly
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It does not get out of order

It stands the hardest usage

It is neat in appearance.

It is easily attached

It is guaranteed for five years

The hands do not waive and
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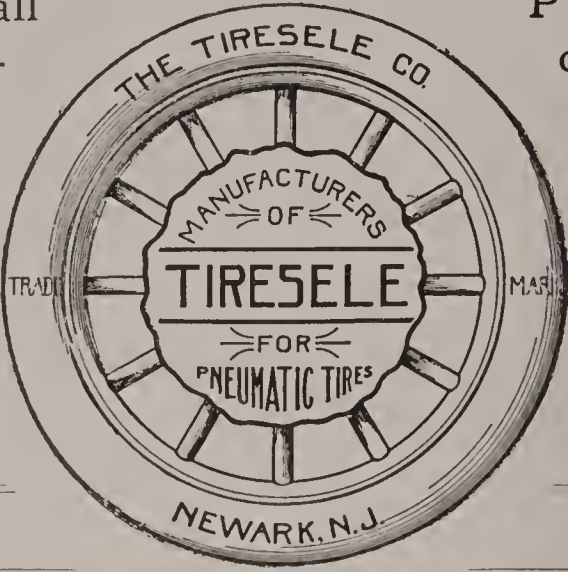
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PREVENTS DELAY—LINGER AND WAIT—

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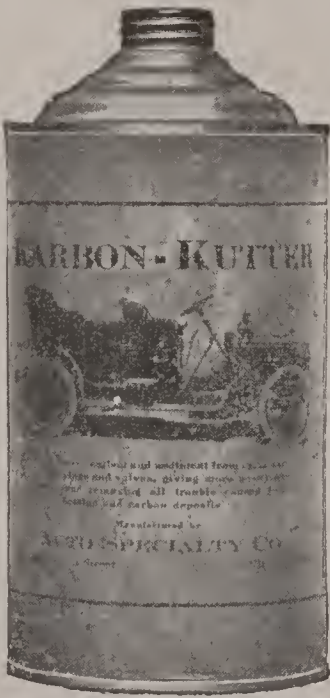
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Cycles, Bicycles
matic tires —
tube — will not
hard. Does not
prevent vul-
two oz. to auto
\$2.50 per wheel.

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Sold by MOTOR CAR SUPPLY COMPANY, CHICAGO, ILLINOIS



KARBON KUTTER

WILL SAVE YOU MONEY

Cleans thoroughly all carbon and sediment from motor
without injury to any parts.

GARAGE MAN'S CHARGE for tearing
down motor and scraping carbon, ten
hours - - - - - \$6.50

OUR CHARGE—1 qt. KARBON KUTTER - - - - - 1.00
Saved - - - - - \$5.50

A set of Scrapers free with each order for one dozen quarts.

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AUTOMOBILE BRAKE BAND LINING

HAS A REINFORCED
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EXCLUSIVE MANUFACTURERS

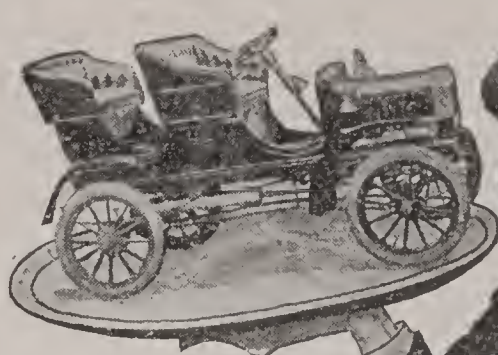
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drop in and let
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The finest Garage
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Our terms are right,
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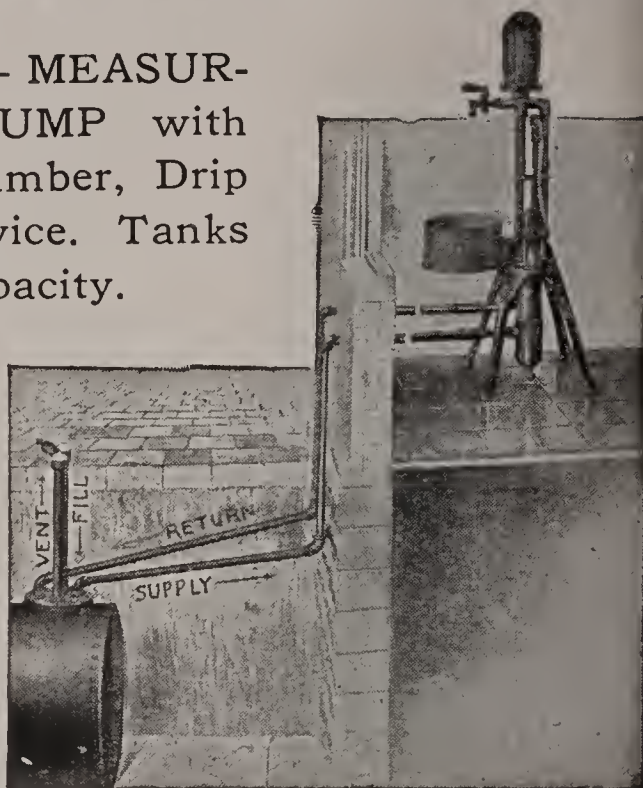
The Tokheim Gasoline Outfit

Outfit consists of DOME SELF - MEASURING, PRICE COMPUTING PUMP with Tokheim Patent Priming Chamber, Drip Pan, Gauge Rod and Locking Device. Tanks furnished in any desired capacity.

Pump can be furnished with Special Three-Way Discharge Valve and with Counter which registers the amount discharged up to 9999 gallons and repeats.

WRITE FOR CATALOG

We manufacture twenty-five styles of SELF-MEASURING OIL OUTFITS.



Dome Outfit No. 4.

THE TOKHEIM MFG. CO., CEDAR RAPIDS, IOWA

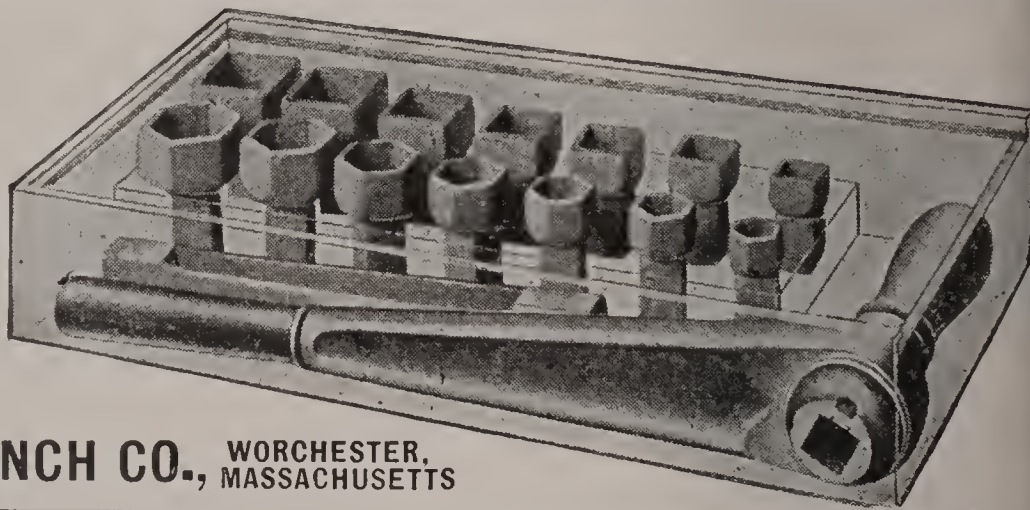
THE "MULTO" SOCKET RATCHET WRENCH

We make Wrenches all sizes from 5-16 to 5 in. sq., 5-8 to 5 in. hex.

This half-tone is from a photograph, showing our "Multo" Socket Wrench. Each Wrench with its fourteen sockets is packed in a substantial covered box.

All our Ratchet Wrenches are reversible and work right or left handed at pleasure without removing the Wrench.

All kinds and sizes.
Send for catalogue.



LOWELL WRENCH CO., WORCHESTER, MASSACHUSETTS



The use of "DUFFY'S" proves our claim
"ONCE A GREASE,
ALWAYS A GREASE"

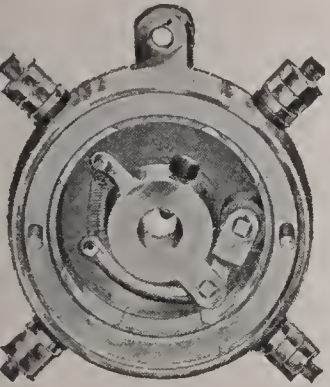
No waste or flushing on the brakes.
Not affected by weather conditions.
Used wherever a grease is used.

Try it

DUFFY GREASE COMPANY, Inc.
New York, N. Y.

Timers and Distributors

OF EVERY KNOWN TYPE
FOR EVERY KNOWN SERVICE



We are specialists in this line and our experience and manufacturing facilities enable us to turn out large quantities for engine builders and dealers at very attractive prices. Jobbers and dealers write us for prices. Agents wanted in the West and on the Coast.

The Altemus Manufacturing Co.

42d AND CHESTNUT STREETS

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TRADE MARK
Raybestos

FRICITION FACING

Is made IN ONE PIECE from asbestos.

Is impregnated in such a manner that it is proof against heat, oil and grease.

Is an ABSOLUTELY DEPENDABLE Brake Lining. You owe to yourself to see that your brakes are lined with it, if you want to have complete control of your car on the steepest grades.

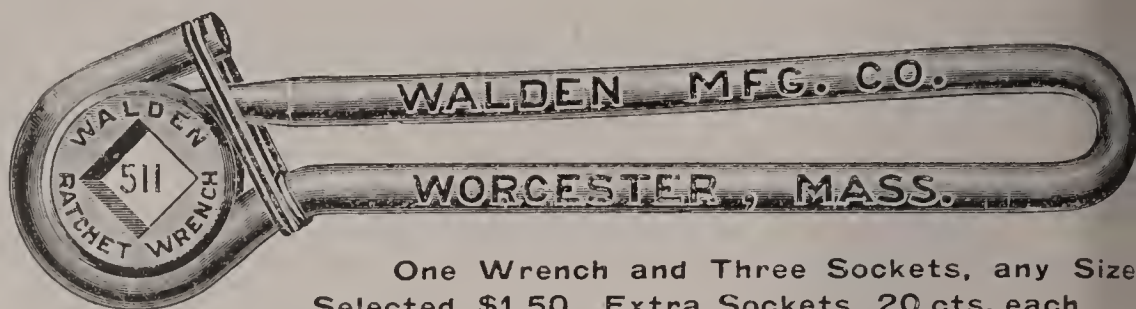
ROYAL EQUIPMENT COMPANY

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STEEL SOCKETS FIT
No. 511



One Wrench and Three Sockets, any Size
Selected, \$1.50. Extra Sockets, 20 cts. each.

Hexagonal Sizes Only
to Fit Heads

No. 06	$\frac{3}{8}$
No. 08	$\frac{1}{2}$
No. 09	$\frac{9}{16}$
No. 010	$\frac{5}{8}$
No. 011	$1\frac{1}{16}$
No. 012	$\frac{3}{4}$
No. 014	$\frac{7}{8}$
No. 015	$1\frac{5}{16}$
No. 016	1
No. 017	$1\frac{1}{16}$
No. 018	$1\frac{1}{8}$
No. 020	$1\frac{1}{4}$

THE ONLY THREE-PIECE RATCHET
WRENCH. NOTHING TO GET OUT OF
ORDER. SIMPLEST POSSIBLE TOOL.
THE HANDLE IS WIRE—BUT IT CAN'T
BREAK—IT WON'T BEND—IT WILL STAND
THE STRAIN—A STRONG, SERVICEABLE
WRENCH, THOROUGHLY WELL MADE;
Best of Selected Stock; Nickel Finish.

For Tire Lugs

No. 28	$\frac{1}{2}$ "	Hex.-----	\$.35 Each
No. 29	$\frac{9}{16}$ "	Hex.-----	.35 Each
No. 212	$\frac{3}{4}$ "	Hex.-----	.40 Each

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WE WANT YOUR INQUIRIES



The Auto Polish of Quality.

Restores the shine and surface to the
body, leather trimmings, cushions
and top, prolongs the life of the finish
and greatly improves the appearance
of the car.



The Metal Polish with the Elbow
Grease in the Can.

More Polish, Less Work.

Wipes Freely, Contains no Acid.

Imparts a brilliant lustre to all Metallic
Surfaces.

SOLD BY ALL FIRST CLASS DEALERS IN AUTOMOBILE SUPPLIES

If your dealer hasn't got them in stock, write us for our

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Fulton Building
PITTSBURG, PA.

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CHICAGO, ILL.

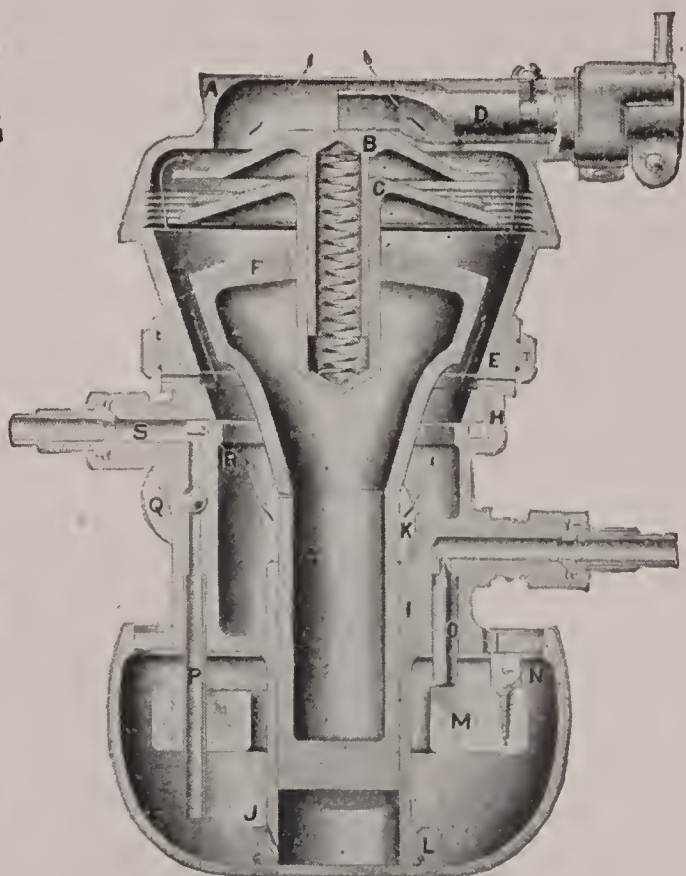
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THE

Stewart

Precision

Carburetor



Sectional View.

You want the maximum of **POWER**
on the minimum of **FUEL**.

You want quiet running and
a **UNIFORM MIXTURE** at all speeds.

THE

STEWART PRECISION CARBURETOR

will get you these results better than any instrument
you have ever used, or your money will be refunded.

NEW PRINCIPLE.

The proportioning of air and gasoline is accomplished by **gravity**, acting on the one moving part, there being no **springs**.

THE RESULT

is a consistent performance at all times. Write
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Alfred C. Stewart Machine Works, **LOS ANGELES, CAL.**

FOUR GOOD THINGS

MOBO AUTOMOBILE CLEANSER

is made as good as automobile soap can be made. It has a substantial body. Therefore it cleans easily, quickly and thoroughly. MOBO is also absolutely free from uncombined alkali. Because of this it works without injury. These things about MOBO mean much. They mean clean, bright cars, also long life to varnish and paint. Therefore we suggest—try MOBO—in 50c and \$1.00 cans.

SHOFO HAND CLEANSER

is made of Castile Soap, powdered Pumicestone and green Olive Oil. These three SHOFO ingredients show a quick, easy and effective working out. To explain, the Castile Soap washes, the Pumicestone scours and the Olive Oil keeps the skin soft. This SHOFO way of hand cleansing is ease, speed and delicacy combined. It is better than all others. Therefore we say—try SHOFO. In 10c and 20c cans.

HYGLO METAL POLISH

is different from all other metal polishes. It is one that eliminates the wait-while-it-dries feature. Also that rub-rub-rub which does tire. Instead the HYGLO way is quick, easy and sure. Then further a HYGLO shine is always even and brilliant, and one also that stays long. In that regard a HYGLO shine is distinctly long-lived, and the only one that is a real all-day shine. 15c, 25c and \$1.50 cans.

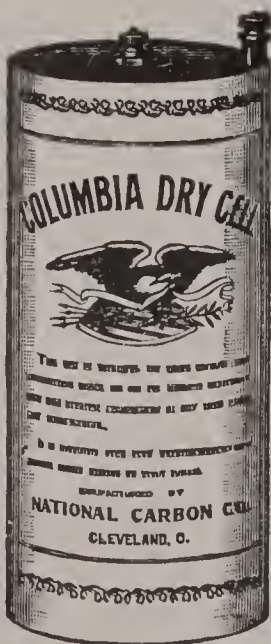
LEVO WOOD POLISH

is good for cars minus part of the fine varnished finish they had when new. That because LEVO fills in digs and covers up bare spots. At the same time LEVO gives a polish equal to a new coat of varnish, which does not wear off quickly, or come off in washing, because LEVO is an oil preparation and is waterproof. So if your car shows varnish departed, but not enough to warrant the paint shop—Try LEVO, and it will make the car look new. In 25c, 50c and \$1.00 bottles.

JOHN T. STANLEY - MAKER - NEW YORK

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MOTOR CAR SUPPLY CO., 1451 MICHIGAN AVE., CHICAGO

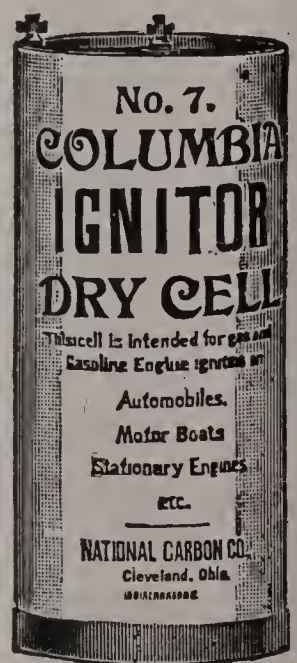
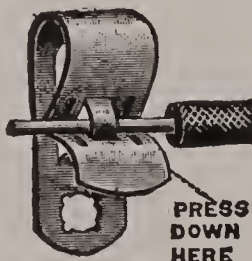


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by other MOTORISTS and
equip your MACHINE with

COLUMBIA
or **COLUMBIA IGNITOR**

“RED TOP” dry cells.



Don't accept SUBSTITUTES which may spoil your trip.
INSIST on getting COLUMBIA cells. They cost NO MORE.

No Extra Charge for Fahnestock Clips

NATIONAL CARBON COMPANY

CLEVELAND, OHIO

On Dunlop Type

Over 8,000 miles with a Cadillac on Diamond Dunlop type tires and no tire trouble at all. That's what I think of the Diamond Dunlop Style of tires.

R. W. Emerson,
Central City, Ia.

What's Your Car ?

On Fisk Type

My experience with Diamond Fisk Type or "bolted on" tires on my Stevens-Duryea has been so satisfactory that I shall certainly have none but Diamond in future.

N. L. Ely,
Peekskill, N. Y.

Big or Little

Diamond

Heavy or Light

WRAPPED TREAD TIRES ARE FOR YOU

On a Large Car

I can well imagine that you receive many testimonials for Diamond tires, but I wish to add mine—that Diamond tires on my Peerless Car have been nothing short of extraordinarily fine.

Fred Hoke,
Indianapolis.

Much Better

Cost No More

Quick Detachable

Regular Clincher

Mechanical (Dunlop)

And Fisk Types

On a Light Car

As a physician using a runabout in practice, I drive the car very hard and the tires must bear the brunt of it. Am pleased to say I find Diamond tires much better than all the others I have used.

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West Orange, N. J.

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DYKES'

Never Kleep Tire Shoes



This shoe is specially prepared with a cement coating, ready for instant use. Clings to inside of casing, same as if vulcanized.

John L. G. Dykes Co.
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HAZARD OF NIGHT DRIVING

is reduced to the minimum only if you use reliable burners. The safety of both car and passengers depends then on this apparently unimportant little unit. "A chain is no stronger



than its weakest link." No matter how good your lamps or gas supply, unless you have the best burner procurable. When your lamps are new from the factory, they are equipped with some style of Alco burner, for all important lamp makers use ALCO. Then why not insist on Alco again when replacing broken and worn out burners? All dealers sell—we do **not** sell to consumers direct.

Ask Dealer.

Alco DeLuxe Genuine German Lava. All gas sizes. Hexagon base (Pat. Dec. 24, 1907) permits easy installation with wrench or pliers.

AMERICAN LAVA COMPANY
CHATTANOOGA, TENN.



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See
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Have a
**Williams
Shield**

put on your
car while stop-
ping over night.

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A Touring Car Shield When Top is Up A Roadster Shield When Top is Down
All in One Fits All Cars Nothing Like It

20th Century Motor Car Supply Co. ... Sole Mf'rs.

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NEVER MIND THE PUNCTURE

THAT CAN BE REPAIRED WHEN YOU GET HOME

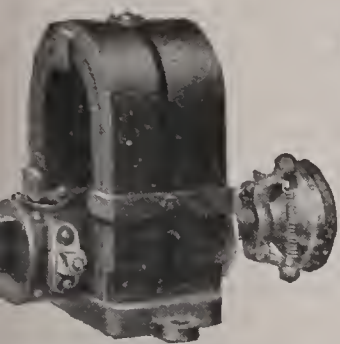
A Detroit Emergency Wheel

attached to the rim of the wheel carrying the
disabled tire, will enable you to drive for miles

EASY TO PUT ON LIGHT WEIGHT REASONABLE PRICE

Can be attached in less than one minute without removing the punctured tire

Ask Your Dealer for the **Detroit** Emergency Wheel



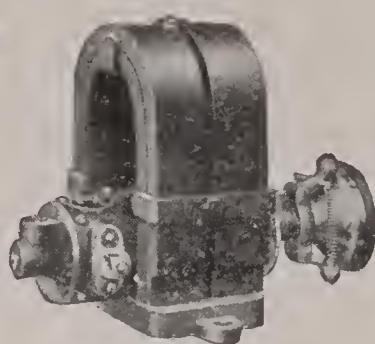
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For Ford Models N. R. S.

Maxwell Magneto **\$25**

For Maxwell Two-Cylinders



Does the work as well as any \$75 Magneto. Does it far better than any cheaper Magneto. No special coil required. Works with your present equipment. Brackets and everything necessary for installing furnished. The only Magneto backed by a 30-day free trial. Not an experiment. There are thousands in use. Write for catalog M. Which have you, Ford or Maxwell?

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Blowouts repaired. Sectional repairs made. Casings retreaded and recovered. Tube punctures vulcanized. Motor cycle tires repaired.—We give you a **SQUARE DEAL** and **YOUR MONEY'S WORTH**. We can guarantee our repairs, because we use the best materials, employ efficient workmen, and operate our well-equipped shop under up-to-date methods. **We Sell New Tires.** Our Aim is Our Motto: "Right and Reasonable."

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ON AUTOMOBILE WEARING APPAREL

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ALL LIVE DEALERS CARRY THE LINE

Protector Coats, Dusters, Rubber Shirts
Cravenettes, Leggings, Corduroy Clothing

THE DUCK BRAND CO. ::= CHICAGO

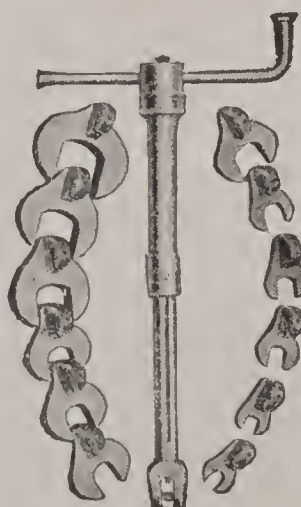


REX Adjustable Wrench Sets

Extension Ratchet handle; Interchangeable heads; adjustable instantly to any position. Fits any nut, bolt or cap screw, square or hexagon, on any machine. All parts drop forged from high carbon steel and **ABSOLUTELY WARRANTED** against breakage.

YOU NEED THIS WRENCH

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MEANS THAT GOODS SO BRANDED
ARE ABSOLUTELY CORRECT

Thermoid
BRAKE BAND LINING

Thermoid
TIRES AND INNER TUBES

MANUFACTURED BY THE

Thermoid RUBBER COMPANY
TRENTON, N. J.

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Equip your car with the **GRAY AUTOCHIME**. The Pioneer and Aristocrat of exhaust-blown signals. Some unscrupulous jobbers and dealers are offering imitations at prices from \$4.00 up. The Autochime sells for \$10.00. It's more than worth the difference.

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Superior Motor Car and Motor Boat Accessories

DIXON'S **GRAPHITE** **MOTOR** **LUBRICANTS**

Supply lubrication for practically every part of the car; cylinders, transmissions, differentials, bearings, etc. The service these lubricants render is due to **DIXON'S TICONDEROGA FLAKE GRAPHITE** — the finest lubricating graphite the world produces. Use Dixon's and increase your car's efficiency.

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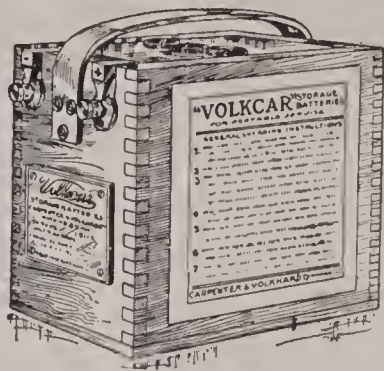
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BATTERY TO EQUAL THE

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TRY ONE AT OUR EXPENSE

CARPENTER & VOLKHARAT

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THE PRINCIPLE OF THE PETRE CARBURETTER

is exclusive. No other carburetter on the market has an automatically controlled needle valve which apportions the exact amount of gasoline for the given amount of air, making the quality of the mixture constant, whether running five or fifty miles per hour, up or down grade.

Notice that the needle valve and the air inlet are so affixed to the same lever that any movement of the air valve gives a correct and proportionate movement of the gasoline inlet, thus insuring a perfect mixture at all times, under all conditions.

- The Petre Carburetter is guaranteed to
1. Start your Engine not later than the 3d quarter turn.
 2. Give Greater Flexibility in Slow Running.
 3. Greater Speed—By increasing Quantity, without changing the Quality of the mixture.
 4. Greater Power in Hill Climbing—Same reason.
(25 per cent. more power on topping a hill—and we can prove it.)
 5. More Mileage—Less Consumption—Mixture is never too Rich.

THE PETRE CARBURETTER CO.
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Tire Problem Solved!

No remedy has been found that would heal punctured tires without injuring the rubber, until "PERMANIT" was discovered and put in practical use.

"Permanit"

is imported from Europe and in use there for years and now in this country on the market for over a year and a half.

See what our customers say about it:

A prominent physician and ex-president of the Board of Trade writes:

"My Dear Sirs—I have used the auto car in the tires of which you put the material you call "PERMANIT," since November 21, 1907. It has not been necessary to pump up the tires since, although we have taken out of the tires several nails, tacks and pins. It appears to me to do the work."

We have many more similar to this and which are open to your investigation.

Refuse substitutes—let someone else try imitations. Why buy imitations when we can furnish you with the genuine? Do not run any risk by trying something which has not been fairly tested to stand all kinds of weather and roads. "PERMANIT" has stood all these severe tests.

See Our
"Guarantee Policy"

Sounds unbelievable, but it really does it. Besides, keeps the tires in good condition and increases their life. Demonstrated before Board of Governors Harrisburg Motor Club with great success.

In your own interest write today and get full particulars and price and discounts to dealers, or send 53c for a sample carton which is sufficient for a bicycle tire.

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Ignition Plugs Stay Right The Longest

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No. 4A. Half-Inch Separable Double Porcelain
Price -- \$1.25

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TYPE OF STA-RITE PORCELAIN IGNITION PLUGS

Metric, No. 6, Single, Adjustable Sparking Point.
Price - - \$1.25

A. L. A. M., No. 8A, Separable, Outside Sparking Points. 7/8-inch—18th. Original Auto-car size. Price - \$1.25

Winton, No. 15A.
Price - - \$1.25
Extra Long.

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Porcelain Tube and Cap with Bolt, Point, Packings, Nuts and Springs. 50 cts.

With our double porcelains, the contraction and expansion is uniform, and cap protects inner heated tube. Practically no breakage or leakage with "VULCAN" STA-RITES.

GUARANTEE:

We agree to repair, free of charge, perpetually, any Sta-Rite Plugs returned to our factory, at any time.

"VENUS"

TYPE OF STA-RITE MICA IGNITION PLUGS

A. L. A. M., No. 28A. Separable, Outside Sparking Points. 7/8-inch—18th. Original Auto-car size. Price - \$1.50

Metric, No. 48. French Metric. Separable, Outside Sparking Points. Copper Gasket Spun over shoulder.
Price - - \$1.50

Thor, No. 51. Same as No. 48, except with special long bolt to fit Thor Motorcycle terminal. Price - \$1.50

Hedstrom Plug for Indian Motorcycles. Price - \$1.50

Mica Insulator, complete, threaded to fit Nos. 28A, 32A, 48, 51 and Hedstrom.
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All "Venus" Sta-Rite Mica Plugs are constructed with solid bolts from Bessemer steel rod, which do not stretch, and mica does not loosen. The inner India mica core is made with no shellac or other sticking substance. The perfect mica washers are compressed under great pressure, and machine turned to a finely glazed surface, which with ample air space is practically soot and waterproof, and cannot be broken in service.



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Price - \$1.50

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INCORPORATED 1900

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Fisher Building, CHICAGO



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PATENTED
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Get a Stepney And Get There— Anywhere

No matter what kind of roads you have to travel, and no matter what kind of pneumatic tires you ride on, you are liable to have a puncture or blowout at any time. If you try to repair it on the road, it takes time and work--dirty work, too. If you continue your journey without attempting to mend the tire you will ruin it, and tires cost money.

Just Get a Stepney and you Won't Have to Do Either
you won't even soil your hands. Simply attach it to the rim of the injured tire. Anybody can do it. One use of the *Stepney* usually pays for the device, but it can be used interminably. Ask for the *Stepney* anywhere, and *get it*, or write for Catalog "A"

Spare Motor Wheel of America, Ltd.

GEO. S. MORROW, Sales Manager

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Non - Explosive Gasoline Tanks



One of the most important features in storing explosive liquids is the question of Safety

The IMPERIAL Non-explosive Tank is safe in **every** particular. It is scientifically impossible to explode any tank or can fitted with our non-explosive devices. Our tank is just as safe above ground as the other tanks that are buried.

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Empire Tires Wear Longest

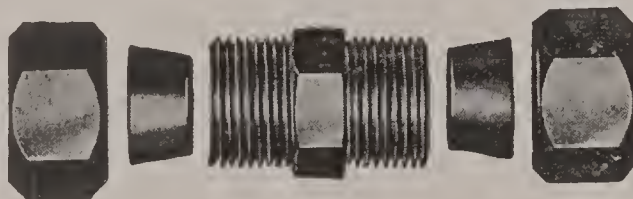
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TIRE COMPANY,** Trenton
N. J.

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IMPERIAL COMPRESSION COUPLINGS

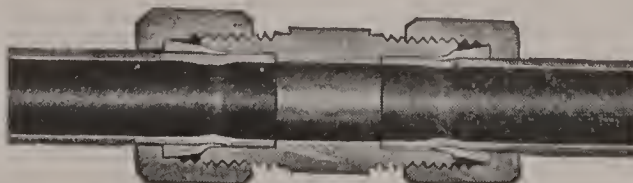
For connecting Copper, Steel, Brass and Aluminum tubing, without soldering, without flaring, without cement, or solder, especially adapted for Automobiles, Motor Boats and Gasoline Engines.

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Write for Samples and Prices.

Imperial Brass Mfg. Co.

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DON'T GO HOME ON THE RIM



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G & K
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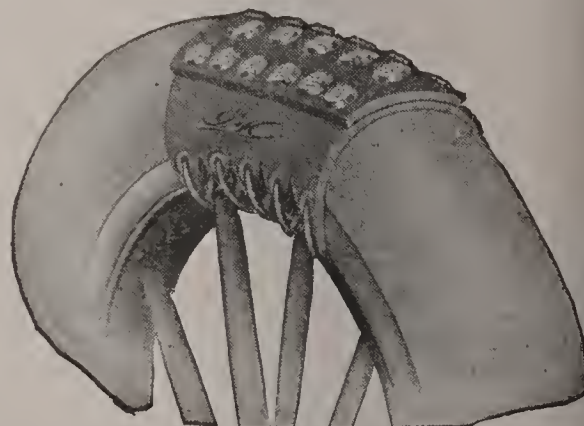
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They are an "ever ready" relief for blow out troubles.

Heat and cold, mud and water, will not injure them.

Made in three sizes, viz:

- No. 1. For 3-inch tire.
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The Sleeve in position

Get them from your dealer or order direct from the manufacturers

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Up-to-date service. Full line of accessories and repairs.

All leading makes of Tires, Presto-Lite Gas Tanks and other necessities always in stock.

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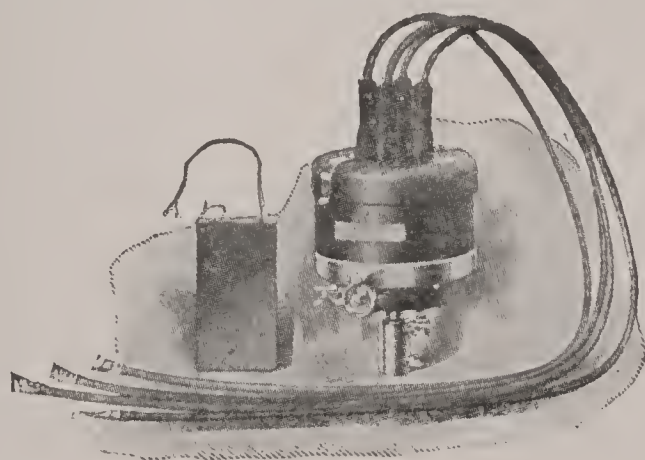
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330 NORTH ILLINOIS ST.

IT'S ALL THERE



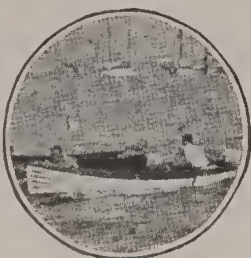
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MUSKEGON, MICH. NEW YORK, N. Y.

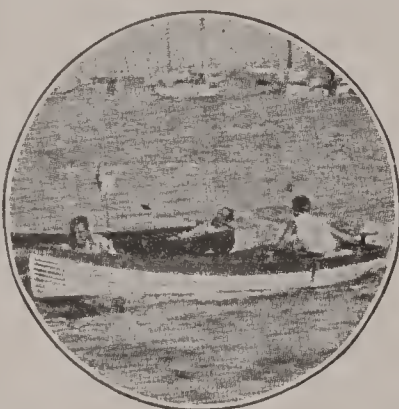
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Same object, same distance, seen
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Eighteen power magnification (other powers in proportion), with a field 607 feet in diameter, at one mile distance, as bright from edge to edge and every detail as sharply defined as in an opera glass, is what you get in the

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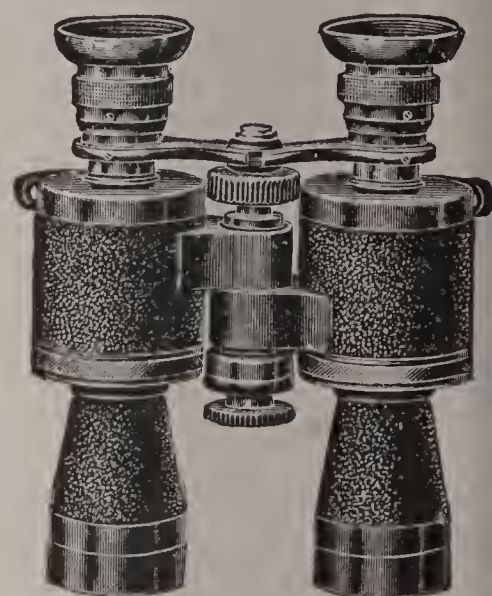
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Send at once for our new "*Auto=Lock*"
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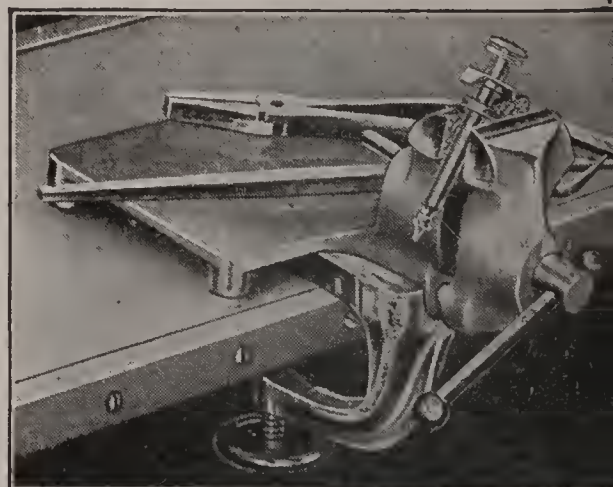
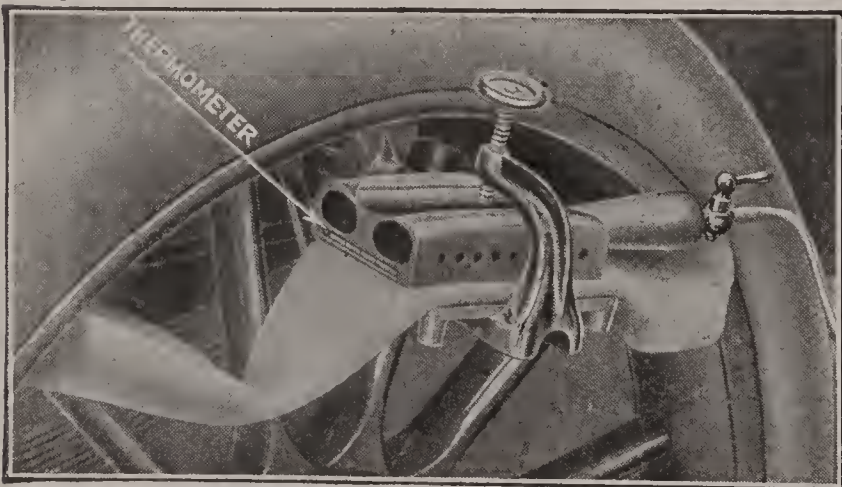
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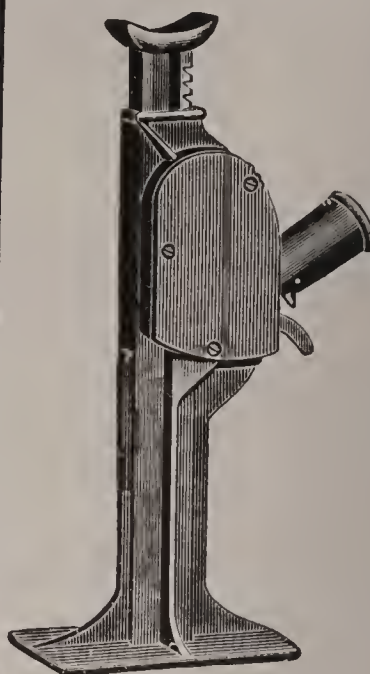
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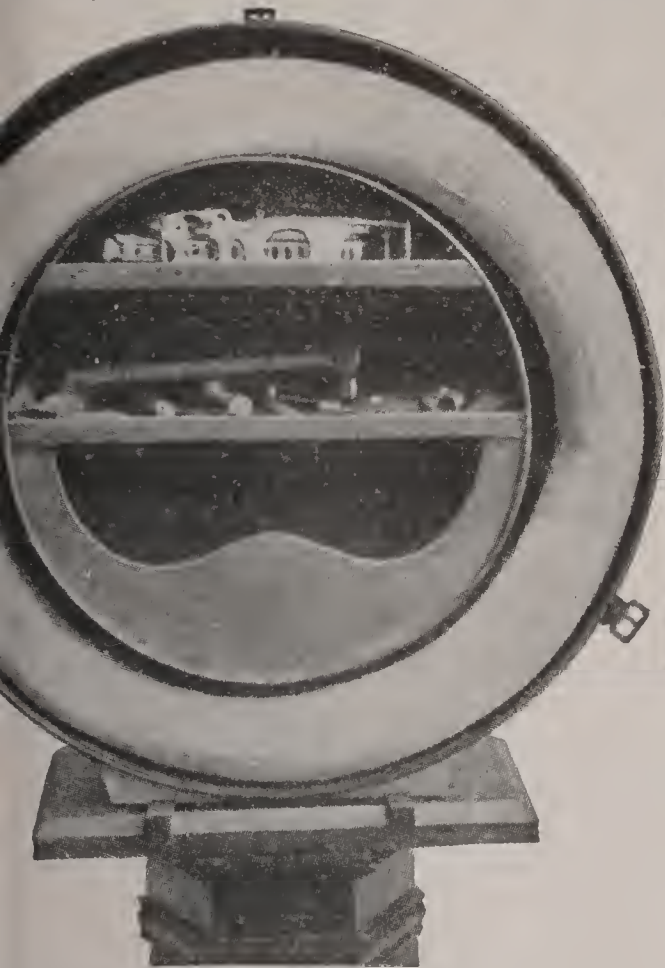
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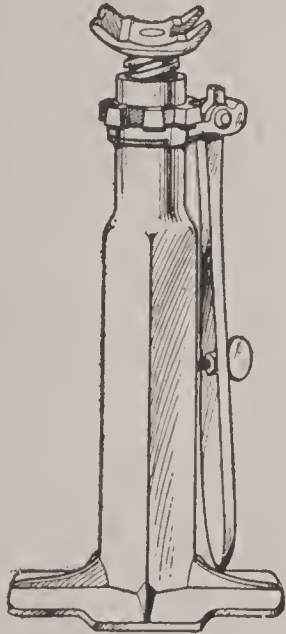
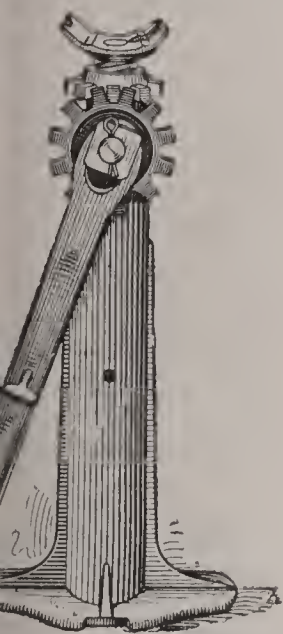
shows case with cover removed, displaying tires, tools, etc. The lower space within the circle holds spools, gloves inner tubes—or any articles used in touring. The tire space takes two shoes, the upper spaces a full equipment, thus doing away with all other appliances requiring extras. The cost of the Dow Tire and Tool Case is much less than that of the many pieces of equipment which this case is not used on your car. Patent pending.

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Patent Allowed.



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right over all. No. 1 10 inches. No. 2, 11 3/4 inches.
No. 1, 5 lbs; No. 2, 6 lbs.
The lever has an up and down motion. It is slotted at
also as to move in or out, to engage from 1 to 4 teeth
wheel.
The head revolves on the end of the screw so that the
can be worked at any angle or in cramped places. The
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fits any automobile with wheels 22 inches or over.
cannot have an accident with this jack.
The screw is one inch in diameter.
The quick work raise the screw against the axle and
the nut down until tight then two or three strokes of
the lever raises the wheel.
A good jack is just as essential as good roads.
that your car is equipped with either a U. S. or Atlas
Simple, durable, guaranteed.
Price, No. 1 \$2.50; No. 2 \$3.00.

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You Can Control This Automobile Horn Perfectly



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This Sireno Electric Horn is so flexible that by varying the pressure on the switch you can produce a gentle purr for the city streets, or a blast that can be heard over a mile away in the country.

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The Sireno is reliable, for it is operated by the regular six-volt ignition battery. It is independent of the engine—never fails to work—doesn't drain the ignition battery. And if you have a magneto, any six-volt battery will run the horn. The Sireno is built of the best materials and is beautifully finished. It is light—compact—easily put on your car in a few minutes.

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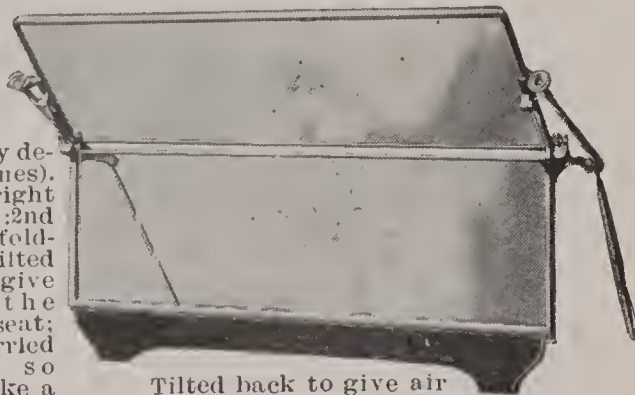
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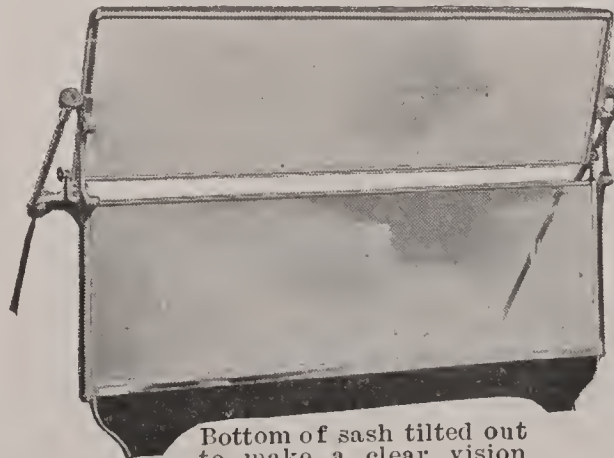
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It can be rigidly held in four positions (the only desirable ones). 1st. Upright or closed; 2nd. Down or folded; 3d. Tilted back to give air to the back seat; 4th. Carried forward so as to make a clear space between the upper and lower sash, so you can see your way in rainy weather. Our



Tilted back to give air to people in rear seat and still keep out storm.

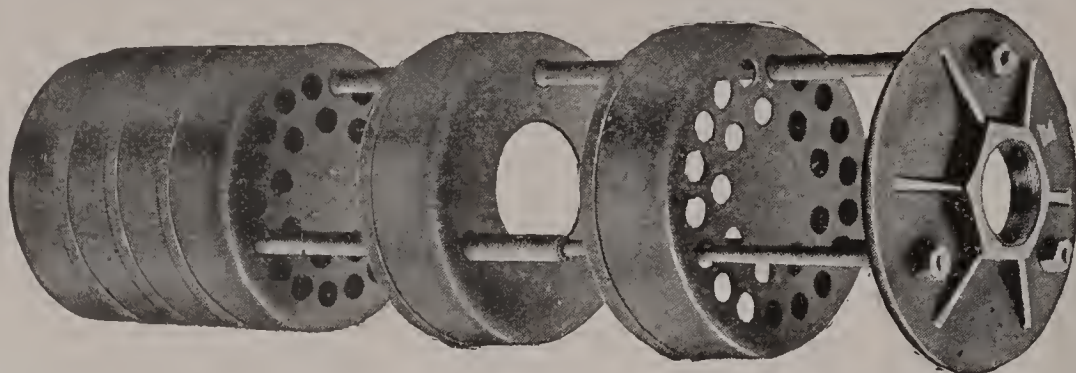


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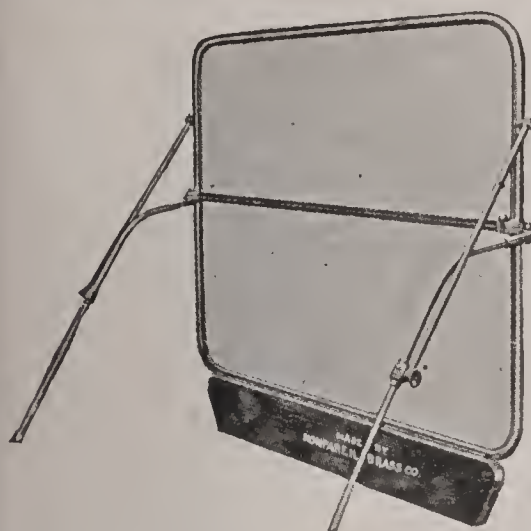
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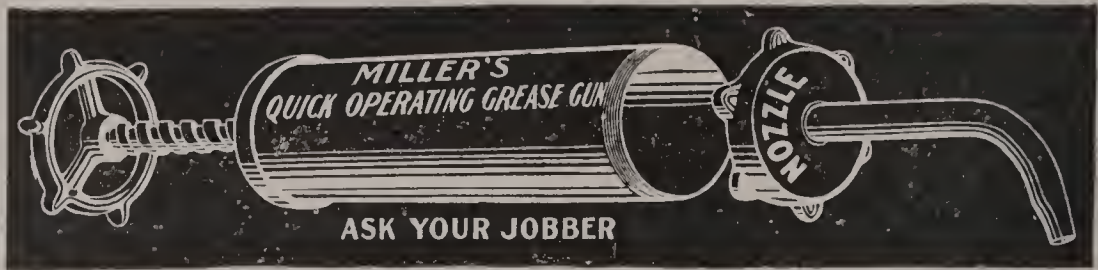
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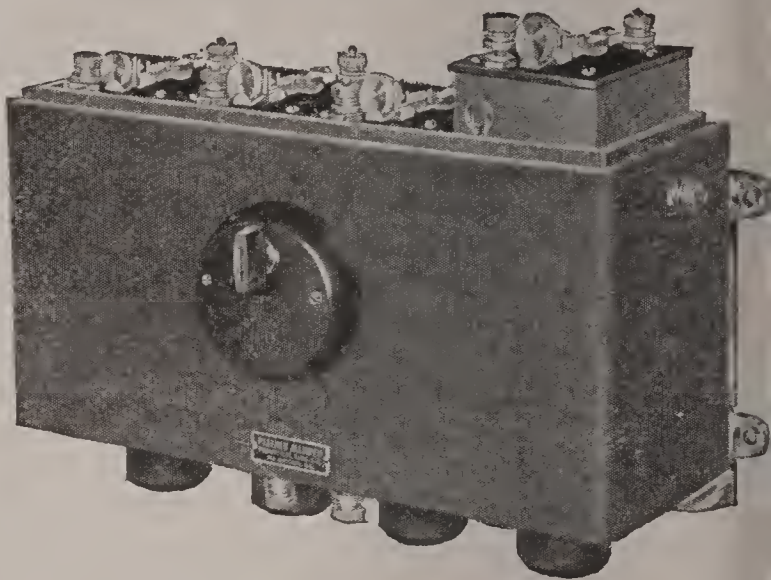
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 No wires, no binding posts,
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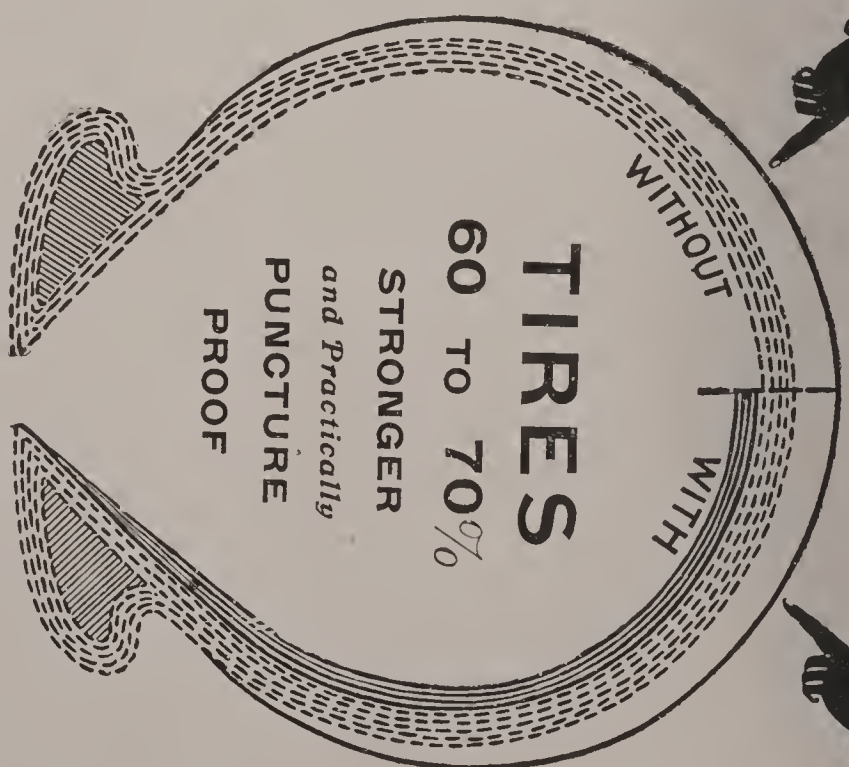
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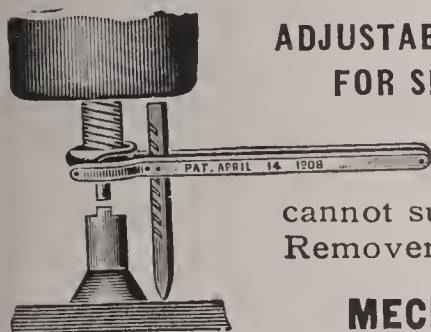
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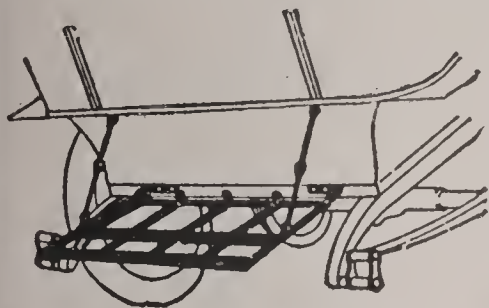
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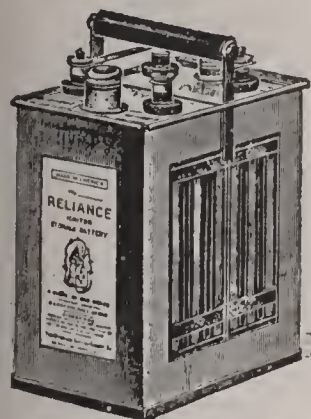
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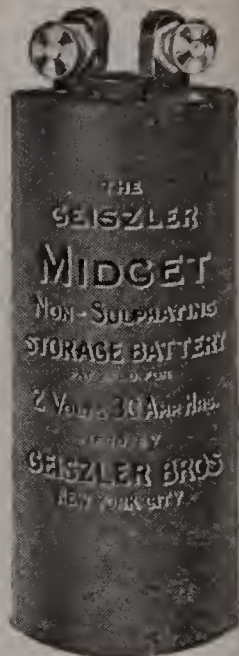
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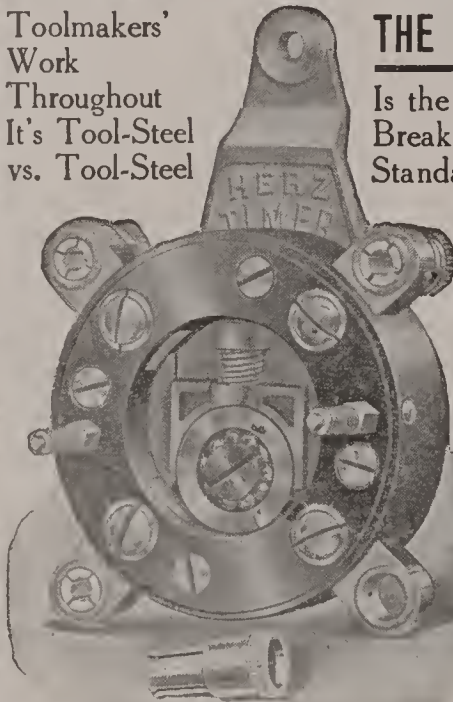
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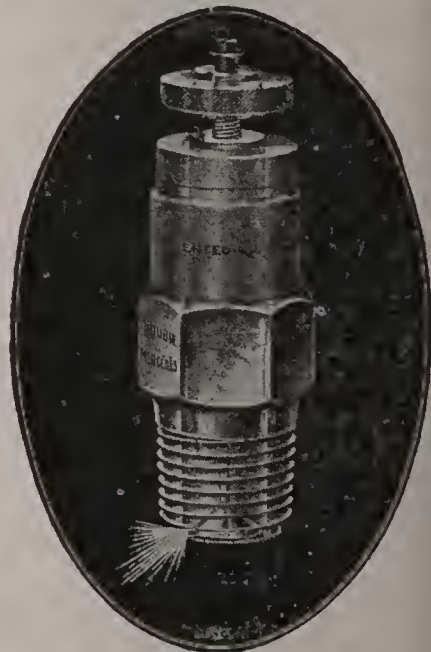
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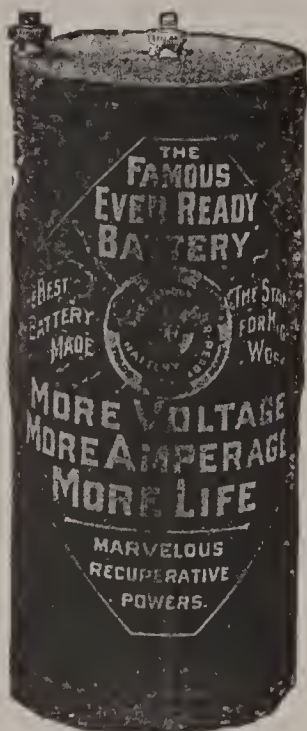
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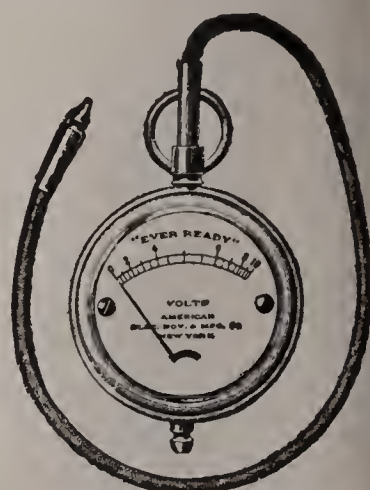
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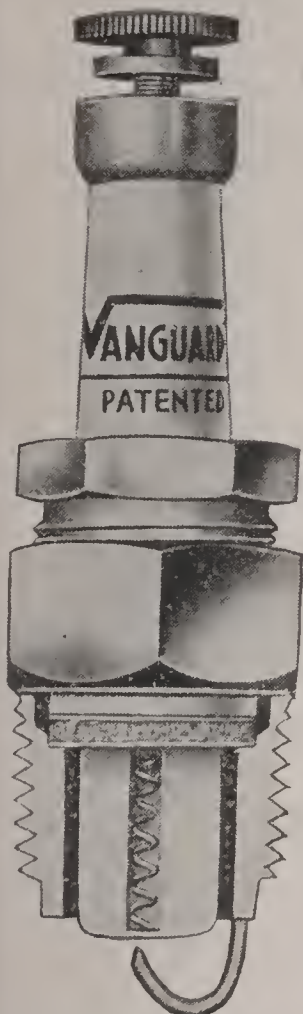
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A. L. A. M. \$1.25. Sent postpaid on receipt of price.

VANGUARD MANUFACTURING COMPANY

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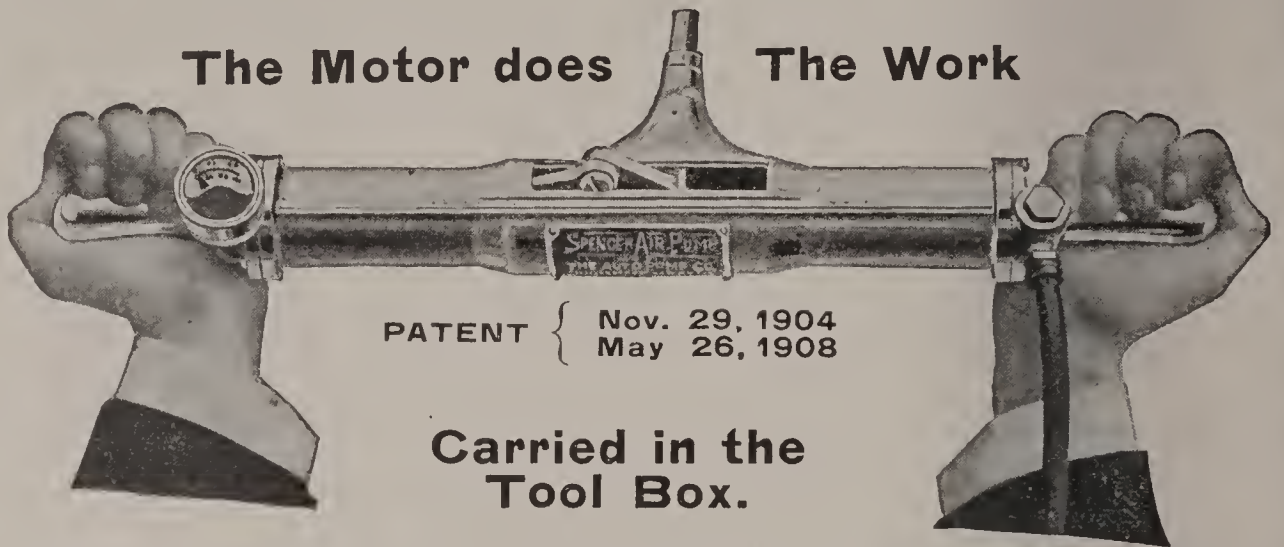
Manufacturers of the famous Vanguard Wind Shields



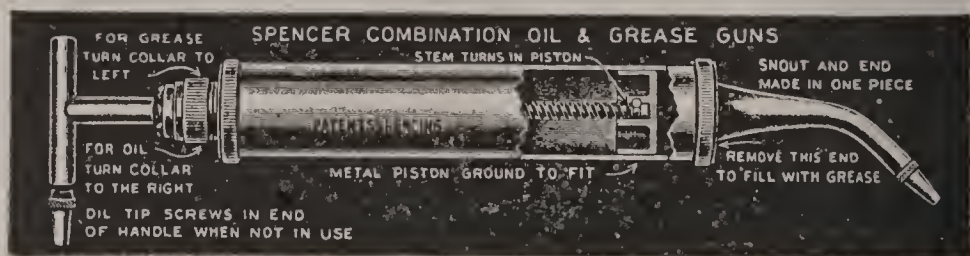
OUR LINE FOR 1909-1910

The Spencer Power Air Pumps

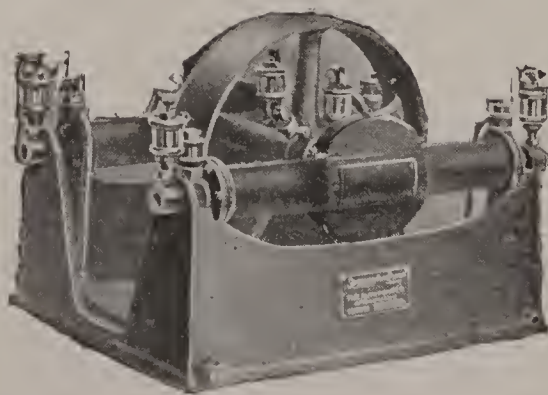
The Motor does The Work



This Pump is built like a high-grade engine, cylinder, pistons and piston rings, ground to the thousandth part of an inch. There are no leather packings to dry or wear out. It will inflate your tire in two minutes, saving time and labor. It will increase the life of your tires by keeping them properly inflated.



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Our four cylinder **Garage Pump** is made up of drop forged pistons and cranks and equipped with piston rings.

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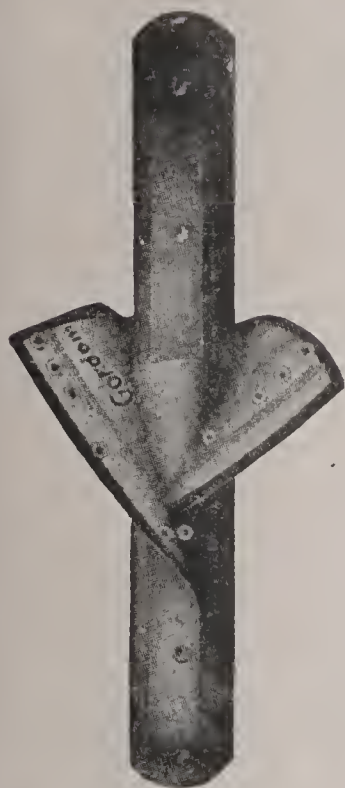
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Buttons on the tread
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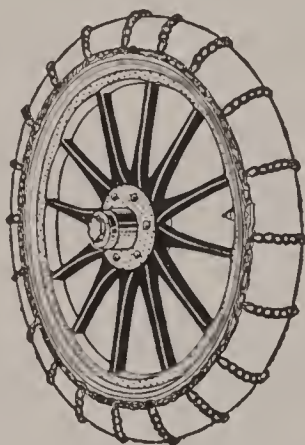
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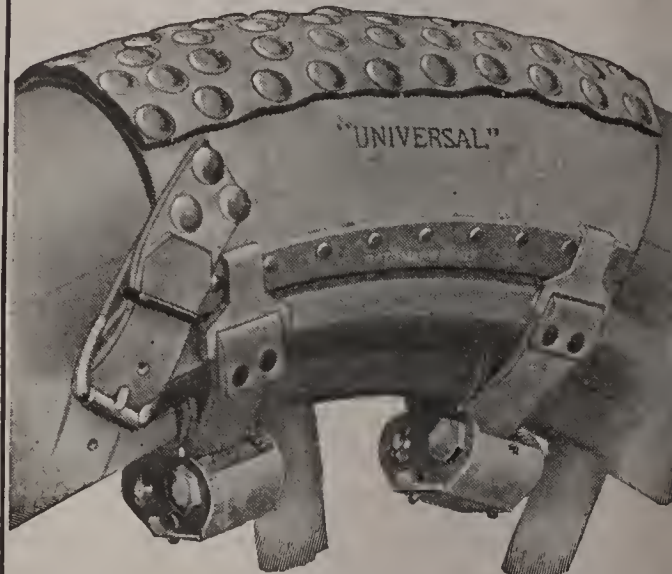
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The full tread protector with an adjustable tension anchorage. Unlimited tension and adjustment. A positive non-detachable anchorage, which eliminates all possibility of tire injury from friction or abrasion. Special steel stud rivet traction armor, with protecting armor all the way over, affording positive traction, absolutely non-skid and puncture proof. A safe and sane tire protector for all possible road conditions. Write for descriptive circular and prices.

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For temporary protection and repair. Ratchet tension anchorage. Instantly adjusted. It is placed or removed in a "jiffy." No lacing. No tools, but the little wrench. The "Universal" sleeve is guaranteed to bring you in on 4 wheels in any case of tire injury from a scratch to a blow-out. Saves you time, saves your temper, saves your tires.

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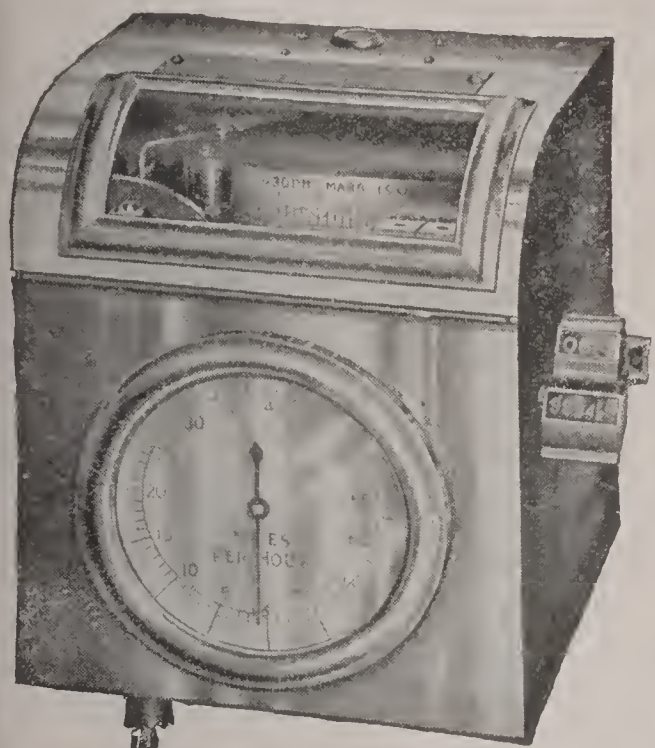
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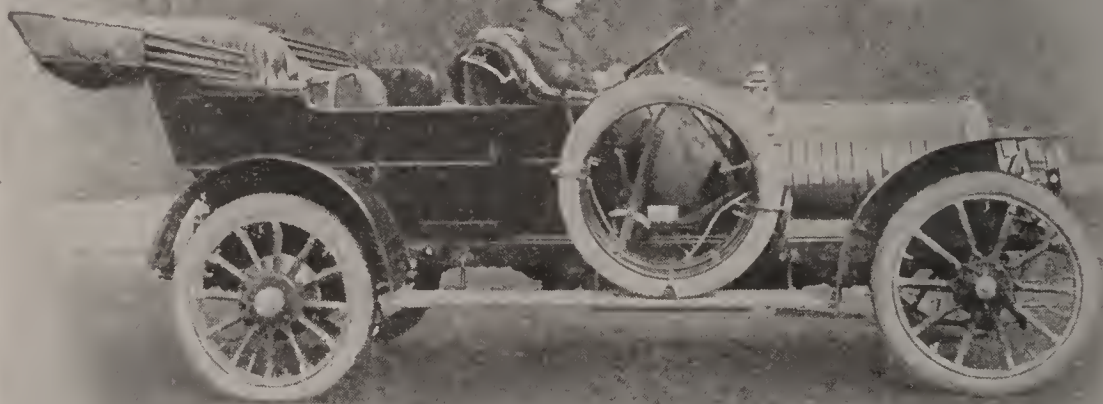
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Fits any tire and enables that tire to be
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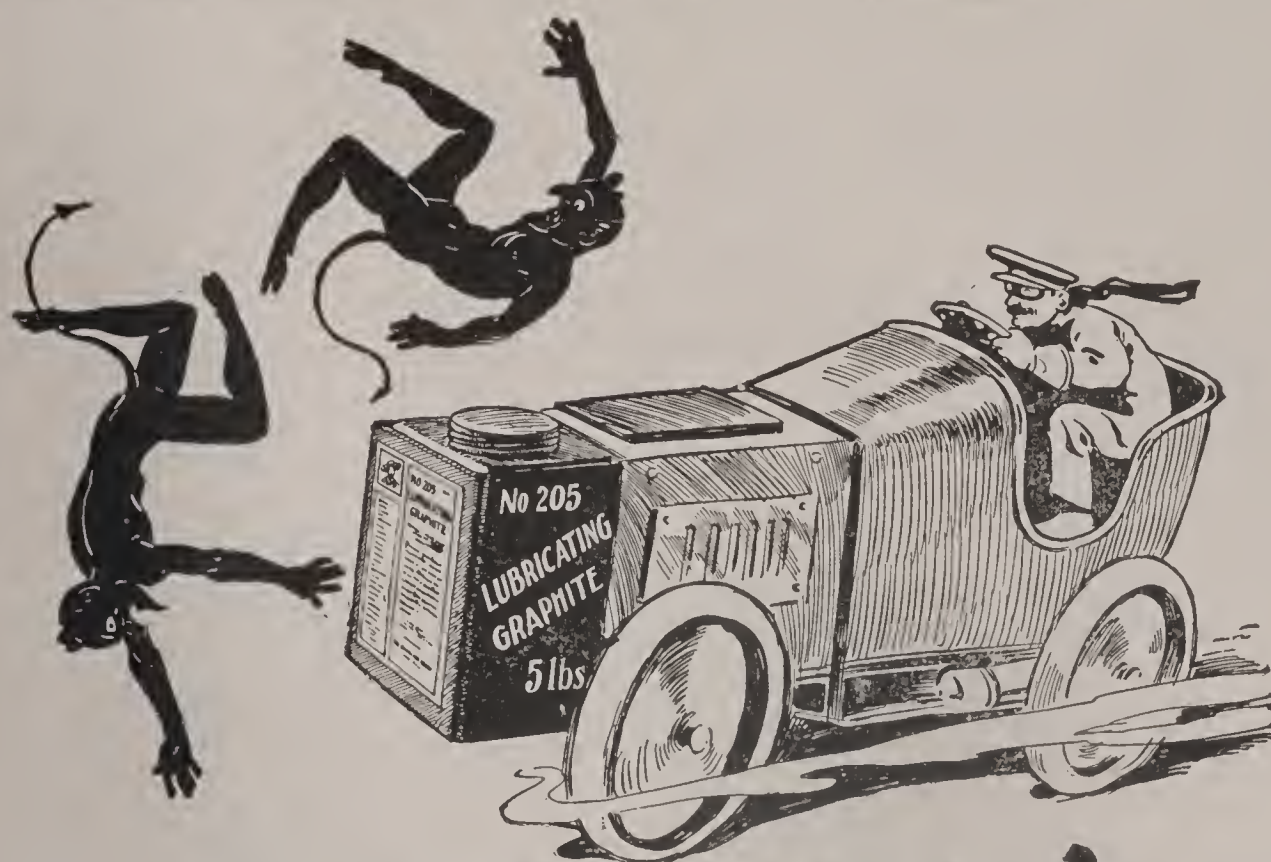


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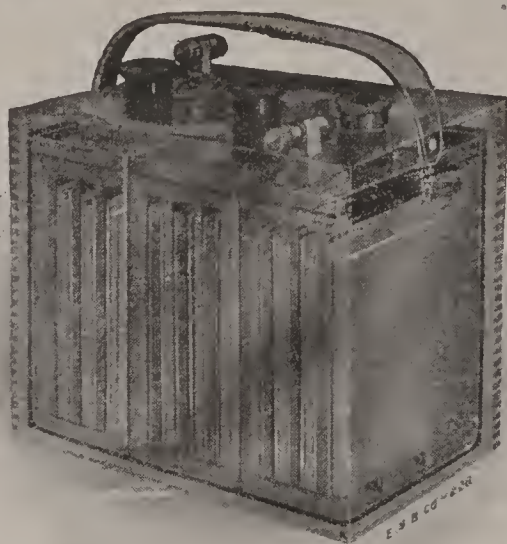
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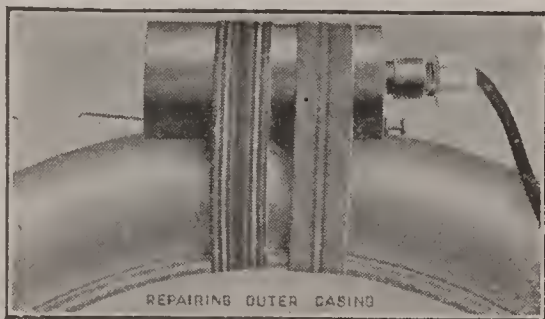
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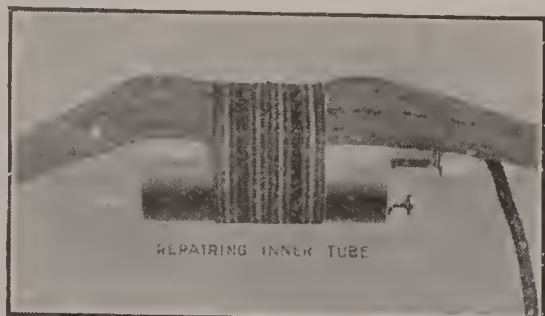
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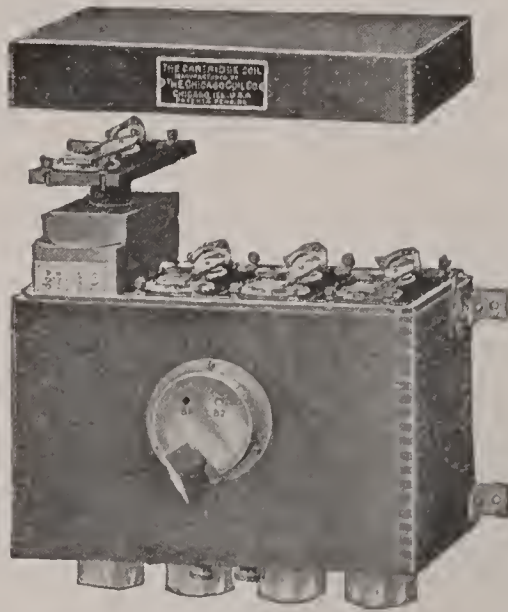
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No units to throw away. Economical on current. Has the switch with a memory which saves platinum wear and is in every way a superior article.



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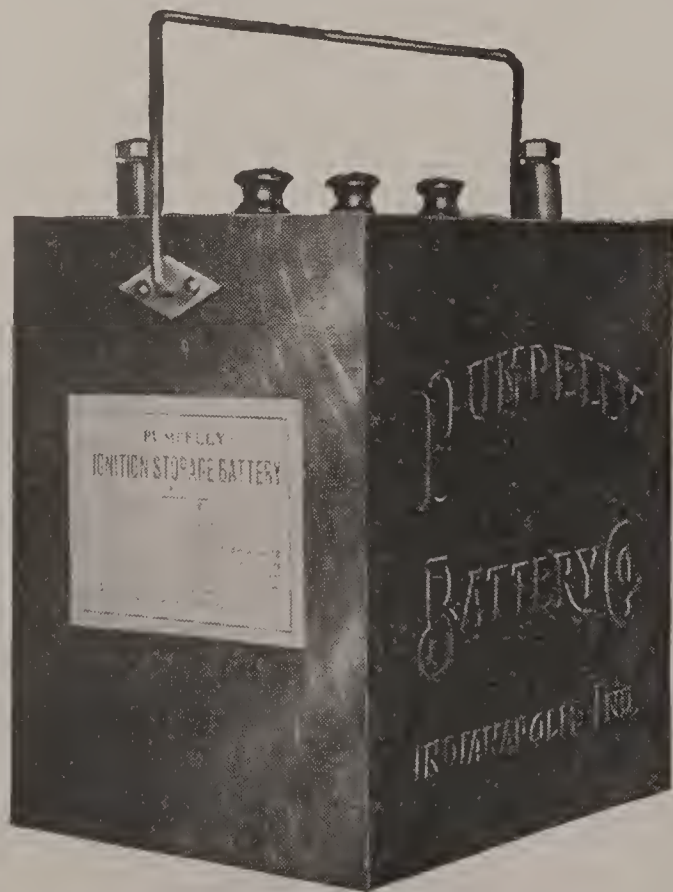
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Yours very truly,

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